**Python Mega-Course: 10 Apps Notes:**

Notes taken for “The Python Mega Course: Build 10 Real World Applications” on Udemy, taught by Ardit Sulce.

Notes taken by Travis Rillos.

**List of Apps:**

* **App 1**: Web Mapping with Python: Interactive Mapping of Population and Volcanoes
* **App 2**: Controlling the Webcam and Detecting Objects
* **App 3 (part 1)**: Data Analysis and Visualization with Pandas and Matplotlib
* **App 3 (part 2)**: Data Analysis and Visualization - In-Browser Interactive Plots
* **App 4**: Web Development with Flask - Build a Personal Website
* **App 5**: GUI Apps and SQL: Build a Book Inventory Desktop GUI Database App
* **App 6**: Mobile App Development: Build a Feel-Good App
* **App 7**: Web-Scraping - Scraping Properties for Sale from the Web
* **App 8**: Flask and PostGreSQL - Build a Data Collector Web App
* **App 9**: Django & Bootstrap Blog and Translator App
* **App 10**: Build a Geography Web App with Flask and Pandas
* **Bonus App:** Building an English Thesaurus
* **Bonus App:** Building a Website Blocker
* **Bonus App:** Data Visualization with Bokeh

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# Section 1 – Welcome:

## Course Introduction:

* Just an overview.
* This course will include how to program with Python from scratch, so I may end up skipping a lot of notes for the first 10 sections or so.
* There are **39 Sections**.
* There’s a Discord channel: <https://discord.gg/QWArvbdZVZ>

# Section 2 – Getting Started with Python:

## Section Introduction:

* Sounds like we use VSCode for this class. Sweet.

# Section 3 – The Basics: Data Types:

## Python Interactive Shell:

* For Windows, run **py -3** in the terminal to start the interactive shell.
* Useful for testing some throwaway code; interactive shell doesn’t save code.
* Creating .py files is better for creating reusable code.

## Terminal:

* Tip about splitting the terminal in two. This way we can run both the **powershell terminal** and the **Python Interactive Shell** side-by-side.
* This allows us to run test code in the interactive code and run .py code in the terminal.

## Data Type Attributes:

* Showed a useful command, **dir()**, which can be used very effectively in the Interactive Shell to find out what operations can be performed on a given subject (methods or properties).
  + Running **dir(list)** shows everything that can be performed on a list.
  + Running **dir(int)** shows everything that can be performed on an integer.
* He used the example of running **dir(str)** to see what can be performed on a string, chose **“upper”** from the list, then ran **help(str.upper)** to find out what it does.
  + This showed that “upper” is a method, which “Returns a copy of the string converted to uppercase”.
* Note: Functions follow the naming convention **function()** while methods follow the naming convention **.method()**.

## How to Find Out What Code You Need:

* To find a complete list of built-in functions, run **dir(\_\_builtins\_\_)**. These are functions that aren’t attached to a specific data type.
* We didn’t find an “average” or “mean” function, but there was a “**sum**” function. Between that and **len**, we can calculate an average for a list of floats.

## What Makes a Programmer a Programmer:

* Three things you need to know to make any program:
  + Syntax
  + Data Structures
  + Algorithm

## How to Use Datatypes in the Real World:

* In our example of creating a Dictionary of student names and grades, would we manually create this dictionary in the real world? Unlikely. The data would be stored in something like an Excel file.
* There are ways to automatically input data from an Excel file into Python.
* We will be doing this later in the course.

# Section 4 – The Basics: Operations with Data Types:

## More Operations with Lists:

* Went over a few methods such as **.append()**, **.index()**, and **.clear()**. Pretty basic stuff.
* Used **dir(list)** and **help(list.append)** etc to see what all can be done to lists.

## Accessing List Items:

* In our “basics.py” with the list “monday\_temperatures” in it, we used **monday\_temperatures.\_\_getitem\_\_(1)** to get the item at Index 1, which was 8.8.
* He then showed that instead of that, we can just use **monday\_temperatures[1]** and we get the same result.
* The version with the double underscores (“\_\_getitem\_\_(1)”) is probably the private method within the function, that the “**[1]**” syntax calls to.

## Accessing List Slices:

* To access a portion of a list **monday\_temperatures = [9.1, 8.8, 7.5, 6.6, 9.9]**, we can use the syntax:
  + **monday\_temperatures[1:4]**
  + To find the items at index 1, index 2, and index 3.
* We can also use **monday\_temperatures[:2]** to get every item before index 2, or the first two items.
* A similar shortcut, **monday\_temperatures[3:]** gives us the values from index 3 to the end of the list.

## Accessing Items and Slices with Negative Numbers:

* Get last item of list with **monday\_temperatures[-1]**. Super basic, but super useful.
  + In this case, running **monday\_temperatures[-5]** gives us the first item again.
* Running **monday\_temperatures[-2:]** with a colon gives us everything from the second-to-last item to the end of the list, or the last two items of the list.

## Accessing Characters and Slices in Strings:

* Strings have the exact same indexing system as lists (duh).
* We can also index a string that’s part of a list:
  + **monday\_temperatures = [‘hello’, 1, 2, 3]**
  + **monday\_temperatures[0]**
    - 🡪 ‘hello’
  + **monday\_temperatures[0][2]**
    - 🡪 ‘l’

## Accessing Items in Dictionaries:

* Started with the dictionary **student\_grades = {“Mary”: 9.1, “Sim”: 8.8, “John”: 7.5}** and input that in the Python interactive shell.
* Running **student\_grades[1]** gives us **KeyError: 1** because the dictionary doesn’t have a key called 1.
* However, running **student\_grades[“Sim”]** gives us 8.8.
* Instead of integers, dictionaries have **keys** as their indexes.
* He gave an example of why this can be very useful by writing a short English-to-Portuguese translation dictionary, then running **eng\_port[“sun”]** to output “**sol**”.

## Tip: Converting Between Datatypes:

Sometimes you might need to convert between different data types in Python for one reason or another. That is very easy to do:

**From tuple to list:**

1. >>> cool\_tuple = (1, 2, 3)
2. >>> cool\_list = list(cool\_tuple)
3. >>> cool\_list
4. [1, 2, 3]

**From list to tuple:**

1. >>> cool\_list = [1, 2, 3]
2. >>> cool\_tuple = tuple(cool\_list)
3. >>> cool\_tuple
4. (1, 2, 3)

**From string to list:**

1. >>> cool\_string = "Hello"
2. >>> cool\_list = list(cool\_string)
3. >>> cool\_list
4. ['H', 'e', 'l', 'l', 'o']

**From list to string:**

1. >>> cool\_list = ['H', 'e', 'l', 'l', 'o']
2. >>> cool\_string = str.join("", cool\_list)
3. >>> cool\_string
4. 'Hello'

As can be seen above, converting a list into a string is more complex. Here str() is not sufficient. We need str.join(). Try running the code above again, but this time using str.join("---", cool\_list) in the second line. You will understand how str.join() works.

# Section 5: The Basics: Functions and Conditionals:

## Creating Your Own Functions:

* Started with an example from earlier in the course where we calculated our own average because there was no built-in function to do so:

student\_grades = [9.1, 8.8, 7.5]

mysum = sum(student\_grades)

length = len(student\_grades)

mean = mysum / length

print(mean)

* Rather than do this, we can wrap these calculations in our own mean function that can then be used on other lists as well.
* I added some exception handling (to only accept a list and only return a float) to the code he presented:

def mean(mylist: list) -> float:

    the\_mean = sum(mylist) / len(mylist)

    return the\_mean

student\_grades = [8.8, 9.1, 7.5]

print(mean(student\_grades))

* He also ran **print(type(mean), type(sum))** in the same code and showed that ***mean*** *was class ‘function’ and* ***sum*** *was class ‘builtin\_function\_or\_method’.*

## Intro to Conditionals:

* What if in the previous code, we passed a dictionary instead of a list?
  + In my case, my code has some error handling.
* We’d get an error because ‘+’ can’t be used on an ‘int’ and a ‘str’. Our function isn’t designed to process dictionaries, just lists. However, we can fix this with conditionals.

## If Conditional Example:

* Note: I’ll have to take my exception handling out for forcing the input to be a list. Don’t know how to accept two different input data types yet.

def mean(myinput) -> float:

    if type(myinput) == list:

        the\_mean = sum(myinput) / len(myinput)

    elif type(myinput) == dict:

        the\_mean = sum(myinput.values()) / len(myinput)

    else:

        print("Invalid input type. Must be list or dictionary")

    return the\_mean

monday\_temperatures = [8.8, 9.1, 9.9]

student\_grades = {"Mary": 9.1, "Sim": 8.8, "John": 7.5}

print(mean(student\_grades))

print(mean(monday\_temperatures))

* Added some basic exception handling in the **else** statement that he didn’t have. He just routed any list inputs straight into “else”.

## Conditional Explained Line by Line:

* In this video he just went through and explained what was going on line-by-line. Basic stuff.

## More on Conditionals:

* Stuff on Booleans, True/False, and how this works in conditionals.
* He mentioned the use of **if isinstance(myinput, dict)** as a useful bit of syntax. I should use that more often in my own code.
* He mentions that there are some very advanced reasons why the isinstance syntax is better to use, but that we won’t get into that until later in the course.

## Elif Conditionals:

* And yet I already used one in my earlier code. The structure of his course still makes sense for absolute beginners, but these first few sections are a bit of a slog.

# Section 6: The Basics: Processing User Input:

## User Input:

* We’re going to be taking user input in the form of a temperature, to run through a function.

def weather\_condition(temperature: float) -> str:

    if temperature > 7:

        return "Warm"

    elif temperature <= 7:

        return "Cold"

    else:

        return "Invalid input. Please enter a number."

**user\_input = float(input("Enter temperature: ")) 🡨 🡨 🡨**

print(weather\_condition(user\_input))

* Added some exception handling again.
* We had to make sure the input was converted to a float (or an int), or else the program will take the input in as a string by default.

## String Formatting:

* Now here’s some wildcard syntax I don’t see too often yet:

user\_input = input("Enter your name: ")

**message = "Hello %s!" % user\_input 🡨 🡨 🡨**

print(message)

* The <**%s**> and <**% user\_input**> in particular is an interesting way to go about inputting that name. An **f-string** would probably also work if I can remember the proper syntax for one.
* Oh wait, he did one:

user\_input = input("Enter your name: ")

message = "Hello %s!" % user\_input

**message = f"Hello {user\_input}" 🡨 🡨 🡨**

print(message)

* He noted that the f-string method works for Python 3.6 and above. The other method works for Python 2 and Python 3.
* You may want to program for an older version of Python, depending on the webserver you’re running it on.

## String Formatting with Multiple Variables:

* To use multiple variables, you more-or-less just add them on.

name = input("Enter your name: ")

surname = input("Enter your surname: ")

message = "Hello %s %s!" % (name, surname) **🡨 🡨 🡨**

message = f"Hello {name} {surname}!" **🡨 🡨 🡨**

print(message)

## More String Formatting:

There is also another way to format strings using the "{}".format(variable) form. Here is an example:

1. name = "John"
2. surname = "Smith"
4. message = **"Your name is {}. Your surname is {}".format(name, surname)**
5. print(message)

Output: Your name is John. Your surname is Smith

## Cheatsheet: Processing User Input:

In this section, you learned that:

* A Python program can get **user input** via the input function:
* The **input** **function** halts the execution of the program and gets text input from the user**:**

1. name = input("Enter your name: ")

* The input function converts any **input to a string**, but you can convert it back to int or float:

1. experience\_months = input("Enter your experience in months: ")
2. experience\_years = int(experience\_months) / 12

* You can also **format strings** with:

1. name = "Sim"
2. experience\_years = 1.5
3. print("Hi {}, you have {} years of experience".format(name, experience\_years))

Output: Hi Sim, you have 1.5 years of experience.

# Section 7: The Basics: Loops:

## For Loops: How and Why:

* For loop iteration. Basic.

## Dictionary Loop and String Formatting:

Here is an example that combines a dictionary loop with string formatting. The loop iterates over the dictionary and it generates and prints out a string in each iteration:

1. phone\_numbers = {"John": "+37682929928", "Marry": "+423998200919"}
3. for pair in phone\_numbers.items():
4. print(f"{pair[0]} has as phone number {pair[1]}")

And here is a better way to achieve the same results by iterating over keys and values:

1. phone\_numbers = {"John": "+37682929928", "Marry": "+423998200919"}
3. for key, value in phone\_numbers.items():
4. print(f"{key} has as phone number {value}")

In both cases, the output is:

John has as phone number +37682929928

Marry has as phone number +423998200919

## While Loops: How and Why:

* He showed an infinite loop for starters. Interesting choice.

## While Loop Example with User Input:

* Just a basic example to check if a username is correct.

username = ''

while username != 'pypy':

    username = input("Enter username: ")

## While Loops with Break and Continue:

* Same functionality as previous, but different method:

while True:

    username = input("Enter username: ")

    if username == 'pypy':

        break

    else:

        continue

* He says he prefers this method over the previous one because it gives you more control over the workflow. He also finds it more readable.

## Cheatsheet: Loops:

* We also have **while-loops**.The code under a while-loop will run as long as the while-loop condition is true:
  1. while datetime.datetime.now() < datetime.datetime(2090, 8, 20, 19, 30, 20):
  2. print("It's not yet 19:30:20 of 2090.8.20")

The loop above will print out the string inside print() over and over again until the 20th of August, 2090.

# Section 8: Putting the Pieces Together: Building a Program:

## Section Introduction:

* The purpose of this section is to fill in gaps in Python knowledge, to make everything work together.

## Problem Statement:

* He showed off just the output of a program called **textpro.py**.
* The program takes some basic input sentences and then reformats them with proper capitalization and punctuation.
* Input prompts end when the input is “**\end**”.

## Approaching the Problem:

* We’re going to look closely at the output (“It’s good weather today. How is the weather there? There are some clouds here.”).
* It’s good to have a very clear idea of what the output should be.
* We look at the output and figure out how it can be broken down into smaller tasks.
* We’re going to accomplish this with multiple functions.

## Building the Maker Function:

* We tested several methods in our Python interactive shell as we went along, to test that their functionality would work for us.
  + **“how are you”.capitalize()** gave us “How are you”
    - We wouldn’t use .title() here because that would capitalize (almost) every word.
  + **“how are you”.startswith((“who”, “what”, “where”, “when”, “why”, “how”))** checks the phrase against a tuple containing all our interrogative words. This is how we can decide whether a sentence should end with a **“?”** or not.
* Here’s what we had by the end of the lecture:

def sentence\_maker(phrase):

    interrogatives = ("who", "what", "where", "when", "why", "how")

    capitalized = phrase.capitalize()

    if phrase.startswith(interrogatives):

        return "{}?".format(capitalized)

    else:

        return "{}.".format(capitalized)

print(sentence\_maker("how are you"))

* We tested with the phrase “how are you” to check functionality, and it came back properly formatted:
  + 🡪 How are you?

## Constructing the Loop:

* We want to add the **user input** now, and we use a **while loop** to divide the flow of the program:

def sentence\_maker(phrase):

    interrogatives = ("who", "what", "where", "when", "why", "how")

    capitalized = phrase.capitalize()

    if phrase.startswith(interrogatives):

        return "{}?".format(capitalized)

    else:

        return "{}.".format(capitalized)

results = []

while True:

    user\_input = input("Say something: ")

    if user\_input == "\end":

        break

    else:

        results.append(sentence\_maker(user\_input))

print(results)

* Our outputs at this stage are still in the form of lists. Lists of phrases that have been properly formatted, but still lists. We want strings.
  + 🡪 [‘Weather is good.’, ‘How are you?’]

## Making the Output User-Friendly:

* Now we want to concatenate all these strings using the **.join()** method.
* The example he ran in the Python interactive shell was:
  + >>> **“-”.join([“how are you”, “good good”, “clear clear])**
  + 🡪 ‘how are you-good good-clear clear’
* The **.join()** method joins items together in a string, with whatever is in between the quotation marks separating the items:

def sentence\_maker(phrase):

    interrogatives = ("who", "what", "where", "when", "why", "how")

    capitalized = phrase.capitalize()

    if phrase.startswith(interrogatives):

        return "{}?".format(capitalized)

    else:

        return "{}.".format(capitalized)

results = []

while True:

    user\_input = input("Say something: ")

    if user\_input == "\end":

        break

    else:

        results.append(sentence\_maker(user\_input))

**print(" ".join(results))** 🡨 🡨 🡨

* Here we used **“ ”.join(results)** to turn the list of formatted phrases into a string, with a space in between them all.

# Section 9: List Comprehensions:

## Section Introduction:

* Primary difference between List Comprehensions and for-loops is that List Comprehensions are written in a single line while for-loops are written in multiple lines.
* They’re a special case of for-loops that are used when you want to construct a list.

## Simple List Comprehension:

* The first example here involves presenting a list of temperatures in Celsius, but without the decimal points. This is often down to save disk space.
* Here’s how a list of temperatures would be re-calculated to add decimal points using a for-loop:

temps = [221, 234, 340, 230]

new\_temps = []

for temp in temps:

    new\_temps.append(temp / 10)

print(new\_temps)

* However, there’s a neater way to accomplish this using just a single line of Python code:

temps = [221, 234, 340, 230]

new\_temps = [temp / 10 for temp in temps]

print(new\_temps)

* Much neater. There’s an in-line for-loop in the new\_temps list.

## List Comprehension with If Conditional:

* Similar to previous, but in this case we include some invalid data (-9999). We want to ignore this one.

temps = [221, 234, 340, -9999, 230]

new\_temps = [temp / 10 for temp in temps if temp != -9999]

print(new\_temps)

**More Examples:**

* Define a function that takes a list of both strings and integers and only returns the integers.
  + Ex.: **foo([99, ‘no data’, 95, 94, ‘no data’])** returns **[99, 95, 94]**:

def foo(data):

new\_data = [item for item in data if isinstance(item, int)]

return new\_data

* Define a function that takes a list of numbers and returns the list containing only the numbers greater than 0.
  + Ex.: **foo([-5, 3, -1, 101])** returns **[3, 101]**:

def foo(data):

new\_data = [item for item in data if item > 0]

return new\_data

## List Comprehension with If-Else Conditional:

* If you want to add an **else** statement in list comprehension (such as “if number != -9999 else 0”) the order is a little different from what we’re used to in if-else conditionals.

temps = [221, 234, 340, -9999, 230]

new\_temps = [temp / 10 **if temp != -9999 else 0** **for temp in temps**] 🡨 🡨 🡨

print(new\_temps)

* Need to get used to this order more often.

**More Examples:**

* Define a function that takes a list of both numbers and strings, and returns numbers or 0 for strings:

def foo(data):

new\_data = [item if isinstance(item, int) else 0 for item in data]

return new\_data

* Define a function that takes a list containing decimal numbers as strings, then sums those numbers and returns a float:

def foo(data):

new\_data = [float(item) for item in data]

return(sum(new\_data))

## Cheatsheet: List Comprehensions:

In this section, you learned that:

* A list comprehension is an expression that creates a list by iterating over another container.
* A **basic**list comprehension:
  1. [i\*2 for i in [1, 5, 10]]

Output: [2, 10, 20]

* List comprehension with **if** condition:
  1. [i\*2 for i in [1, -2, 10] if i>0]

Output: [2, 20]

* List comprehension with an **if** **and** **else** condition:
  1. [i\*2 if i>0 else 0 for i in [1, -2, 10]]

Output: [2, 0, 20]

# Section 10: More About Functions:

## Functions with Multiple Arguments:

* Separate the parameters with a comma while defining the function (basic stuff).
* Calling the function will now take two arguments.

## Default and Non-default Parameters and Keyword and Non-keyword Arguments:

* Example of a function with “default parameters” set:
  + **def area(a, b = 6)**
  + You can also manually assign a new value for **b** even if there’s a default setting
* Example of function being called with “keyword arguments”:
  + **print(area(a = 4, b = 5)**
  + Also called “non-positional arguments”.
  + A “positional argument” would be where there’s no keyword and the position of the argument defines its meaning, i.e. **print(area(4, 5))**.
    - **print(area(b= 5, a = 4)** also works.

## Functions with an Arbitrary Number of *Non-keyword* Arguments:

* Some built-in functions take a specific number of arguments:
  + **len()** takes exactly 1 argument.
  + **isinstance()** takes exactly 2 arguments.
* Other built-in functions can take an arbitrary number of arguments:
  + **print()** can take any number of arguments.
* In this lecture, we’re going to create a function that can take any number of arguments when called.
* Do define a function like this, we use the syntax:
  + **def mean(\*args):**
  + “args” is a pretty standard name for this, that almost all Python programmers use.
  + If we simply **return** **args**, we get a tuple back that’s full of the arguments we passed in.
  + Note that keyword arguments would not work in this situation.

def mean(\*args): 🡨 🡨 🡨

    return sum(args) / len(args)

print(mean(1, 3, 4))

**More Examples:**

* Define a function that takes an indefinite number of strings and returns an alphabetically sorted list containing all the strings converted to uppercase:

def foo(\*args):

    words = [word.upper() for word in args]

    return sorted(words)

* Or:

def foo(\*args):

    words = []

    for word in args:

        words.append(word)

    return sorted(words)

## Functions with an Arbitrary Number of *Keyword* Arguments:

* In the previous case we defined our function with **def mean(\*args)**.
* The case with keyword arguments is similar:
  + **def mean(\*\*kwargs):** with “kwargs” being a standard convention.
  + However, this takes keyword arguments only. Unnamed arguments will cause an error.
  + Returning these arguments gives us a **dictionary** with the **keyword names** being the ‘**keys**’ and the **arguments** being the ‘**values**’.
  + Running **print(func(\*\*kwargs(a=1, b=2, c=3))** yields **{‘a’: 1, ‘b’: 2, ‘c’: 3}**.
* Functions with an arbitrary number of keyword arguments are *more rarely* used than functions with an arbitrary number of non-keyword arguments.

# Section 11: File Processing:

## Section Introduction:

* Storing data *outside* Python in external files.
* Text files, .csv files, databases.

## Processing Files with Python:

* He had created a text file called **fruits.txt** containing:
  + pear
  + apple
  + orange
  + mandarin
  + watermelon
  + pomegranate
* In the next lecture, we’ll use Python to *read* this file.

## Reading Text from a File:

* My Python file, **file-process.py** is in the same directory as my copy of **fruits.txt**.

myfile = open("fruits.txt")

print(myfile.read())

* The code to open this file is:
* The argument in the **open()** method is the filepath for the .txt file. In this case, just giving the name of the .txt file should be enough because both files are in the same directory.
* Note: I couldn’t get it to work at first, even though both files were in the same directory for Section 11. I ended up running “**pwd**” in bash and it turns out my ***working directory*** was one level up, so I ran “**cd**” to get into the directory both were saved in.

## File Cursor:

* The cursor starts at the first character of the file we’re reading in, and goes through to the end of the file.
* At the end of reading a file, the cursor is at the end of the file. Running **print(myfile.read())** on two or more lines of code won’t do anything.
* What you could do instead is to save **myfile.read()** into a variable, and then you can print out that variable multiple times instead.

myfile = open("fruits.txt")

content = myfile.read()

print(content)

print(content)

print(content)

## Closing a File:

* When you create a file object, a file object is created in RAM. It’s going to remain there until your program ends.

myfile = open("fruits.txt")

content = myfile.read()

myfile.close()

print(content)

* Therefore, it would be a good idea to close the file at the end of the program.
* However, there’s also a better way to do this, which we’ll cover in the next lecture.

## Opening Files Using “with”:

* Using the **with** method does all the opening, reading, and closing as a block:

with open("fruits.txt") as myfile:

    content = myfile.read()

print(content)

## Different Filepaths:

* For this, we’ll be moving **fruits.txt** to another directory.
* We need to add the filepath into our **open()** function:

with open("files/fruits.txt") as myfile:

    content = myfile.read()

print(content)

## Writing Text to a File:

* We started by running the **help(open)** function to see its attributes.
* The first two are most important: **file** and **mode=’r’** (meaning the default mode is “read”).

with open("files/vegetables.txt", "w") as myfile:

    myfile.write("Tomato\nCucumber\nOnion\n")

    myfile.write("Garlic")

* We’re going to create a new file, **vegetables.txt** using the “w” write option.
* Note: If the filename already exists, Python will overwrite the existing file.
* The special character **\n** is useful to make sure items are written on new lines.

**More Examples:**

* Define a function that takes a single string **character** and a **filepath** as parameters and returns the **number of occurrences** of that character in the file:

def foo(character, filepath):

count = 0

with open(filepath) as myfile:

content = myfile.read()

for char in content:

if char == character:

count += 1

else:

pass

return count

## Appending Text to an Existing File:

* We want to add two more lines to our existing **vegetables.txt** file. It currently has:
  + Tomato
  + Cucumber
  + Onion
  + Garlic
* If you look at the **help(open)** documentation and scroll down, you’ll see an option to set the mode argument to **“x”** (“create a new file and open it for writing”). Unlike the “w” option, this will not overwrite a file if it already exists.
* There’s also a mode argument **“a”** (“open for writing, appending to the end of the file if it exists”). We’re going to use this to add **Okra** to the list:

with open("files/vegetables.txt", "a") as myfile:

    myfile.write("Okra")

* Running this adds Okra to the end of the existing file, but not on a new line. The last line will read as “GarlicOkra”. There wasn’t a break-line (“**\n**”) in the existing file.
* To fix this, we change the code to:

with open("files/vegetables.txt", "a") as myfile:

    myfile.write("\nOkra")

* He then showed us an example of trying to append and *read* right after. However, since we set the mode to **“a”**, we can’t read, and we get an error.
* To get around this we look in the **help(open)** documentation and see an add-on option **“+”** (“open a disk file for updating (reading and writing)”).

with open("files/vegetables.txt", "**a+**") as myfile: 🡨 🡨 🡨

    myfile.write("\nOkra")

    content = myfile.read()

print(content)

* However, just running this doesn’t print anything out. We need to add something else as well: the **.seek(0)** method to put the cursor at the zero position again:

with open("files/vegetables.txt", "a+") as myfile:

    myfile.write("\nOkra")

    myfile.seek(0) 🡨 🡨 🡨

    content = myfile.read()

print(content)

* The cursor goes back to the beginning, and then reads down to the end of the file.

## Cheatsheet: File Processing:

In this section, you learned that:

* You can **read** an existing file with Python:

1. with open("file.txt") as file:
2. content = file.read()

* You can **create** a new file with Python and **write** some text on it:

1. with open("file.txt", "w") as file:
2. content = file.write("Sample text")

* You can **append** text to an existing file without overwriting it:

1. with open("file.txt", "a") as file:
2. content = file.write("More sample text")

* You can both **append and read** a file with:

1. with open("file.txt", "a+") as file:
2. content = file.write("Even more sample text")
3. file.seek(0)
4. content = file.read()

# Section 12: Modules:

## Section Introduction:

* This section is about importing functions/modules/libraries from elsewhere.

**Resources for This Section:**

* **“Time” Documentation**
  + <https://docs.python.org/3/library/time.html>
* **OS Documentation**
  + <https://docs.python.org/3/library/os.html>
* **Pandas Documentation**
  + <https://pandas.pydata.org/docs/>
* **temps\_today.csv** for download, saved to Section 12 folder.

## Built-in Modules:

*Note: Resource for this lecture is a link to “Time” Documentation on Python’s website*.

* We can search built-in **methods** using **dir(str)** for example.
* We can search built-in **functions** using **dir(\_\_builtins\_\_)**.
* Running the following code will print the contents of “vegetables.txt” forever:

while True:

    with open("files/vegetables.txt") as file:

        print(file.read())

* “Tomato” will be printed to the console forever at a speed that depends on your processor.
* However, what if we don’t want this to happen? What if we want to read the content every 10 seconds instead?
* Checking **dir(\_\_builtins\_\_)** shows that we don’t have any built-in functions that can do that.
* However, we can check built-in modules with the following syntax in the Python interactive shell:
  + **>>> import sys**
  + **>>> sys.builtin\_module\_names**
  + This gives us a list of built-in module names, which includes one called “**time**”. We then run:
  + **>>> import time**
  + Running **dir(time)** shows that it has a **.sleep()** method.
  + Running **help(time.sleep)** shows us that it can be used by passing the number of seconds into the parenthesis.
  + Running **time.sleep(3)** pauses the script/command line for a count of 3 seconds.
* It’s good practice to import modules at the very beginning of Python scripts:

**import time** 🡨 🡨 🡨

while True:

    with open("files/vegetables.txt") as file:

        print(file.read())

**time.sleep(10)** 🡨 🡨 🡨

* Importing **time** and then adding **time.sleep(10)** causes our program to print out the files contents every 10 seconds.
* We tested this by changing “Tomato” to “Onion” and then “Garlic” between these 10-second intervals. The updated file contents were printed out each time.
* Not everything comes as a **built-in** module, however. In the next few lectures, we’ll discuss how to import modules/libraries from other sources.

## Standard Python Modules:

*Note: Resources for this lecture are links to “Time” and “OS” Documentation on Python’s website*.

* He showed that if you delete the file that’s being read before the next 10-second interview is up, you get an error (duh) and your script will stop running.
* What if we want to keep running the script even if the file is no longer there?
* To do that, we’re going to make use of the **OS module**.
  + You’ll notice that **os** isn’t among the built-in Python modules listed when we run **sys.builtin\_module\_names**.
  + To find out where **os** lives, we can run **sys.prefix** in the Python interactive shell, which will give us a filepath. It may be different depending on which operating system one is running.
  + Navigating to that directory by typing **start <filepath location>** (for Windows) will open a File Explorer window for that location. For Max or Linux, use **open <filepath location>** instead of “start”.
    - Note: My file structure looked a lot different than his Mac version, so it may take me some extra time to find out where my stuff is compared to his.
  + In that folder, go into “**Lib**”. There’s a list of .py files here, and **os** is among them.
  + If we open **os** in our IDE, we see that it’s Python code. Note: Don’t make any changes to Python standard files.
* We can also use **dir(os)** to see what methods it has available.
* From this list, we’re going to use **path**.
* Running **os.path.exists(“files/vegetables.txt”)** will check if our file exists and returns True or False. We can make use of that fact in our Python program.
* What we want to do is, before opening our “vegetables.txt” file in “read” mode, we want to check if it exists. If we don’t do that and the file gets deleted, we’re going to get an error.
* We’ll create an **if-else** conditional using **os.path.exists(“files/vegetables.txt”)** to handle situations where the file doesn’t exist or gets deleted.

import time

**import os** 🡨 🡨 🡨

while True:

**if os.path.exists("files/vegetables.txt"):** 🡨 🡨 🡨

        with open("files/vegetables.txt") as file:

            print(file.read())

    else:

        print("File does not exist.")

**time.sleep(10)** 🡨 🡨 🡨

* Note: We want the **time.sleep(10)** method outside of the if-else conditional because we want it to run that way no matter what.
* We then let the script run while we variously deleted and recreated the file.

## Third-Party Modules:

*Note: Resources for this lecture are links to “Time”, “OS”, and Pandas Documentation. Pandas is a third-party library. We’ll also use the “temps\_today.csv” we downloaded*.

* We previously played with our simple “vegetables.txt” file, but what if we want to do work on real-world data? For this lecture, we’ll be working on the *“***temps\_today.csv**” file.
  + In our CSV file, we have two weather stations and the temperatures that each one recorded.
  + We’re going to read our CSV file, but instead of printing out its contents, we’re going to print out an average value of all the values every 10 seconds (in real life we’d do this every 24 hours).
* So far we’ve only loaded data as a string, but in this case we’ll be working with **floats**. We could do some operations to split and convert the data from strings to floats, but that would be like reinventing the wheel. So instead of that, we’re going to **import pandas**. Pandas doesn’t come by default with Python, so we import it this way:
  + In **bash**, we run **pip3 install pandas** to install it.
  + “**pip**” is a Python library that’s used to install other Python libraries. You may have to run **pip3.8**, **pip3.9**, **pip3.10** depending on the version you’re using.
* Rather than being a *module*, pandas is a collection of modules, which we call a “*package*”.

## Third-Party Module Example:

*Note: You have to be running in an* ***Anaconda environment*** *to get pandas to work. I had to go into View 🡪 Command Palette 🡪 search for “Python: Select Interpreter” and choose one from the list*.

* After importing **pandas**, we read in the CSV data into a variable, and then we can play around with printing out the **mean**:

import time

import os

**import pandas** 🡨 🡨 🡨

while True:

    if os.path.exists("files/temps\_today.csv"):

**data = pandas.read\_csv("files/temps\_today.csv")** 🡨 🡨 🡨

**print(data.mean())** 🡨 🡨 🡨

    else:

        print("File does not exist.")

    time.sleep(10)

* We can also print out the average for just one of the weather stations with a minor change:

import time

import os

import pandas

while True:

    if os.path.exists("files/temps\_today.csv"):

        data = pandas.read\_csv("files/temps\_today.csv")

        print(data.mean()**["st1"]**) 🡨 🡨 🡨

    else:

        print("File does not exist.")

    time.sleep(10)

* What pandas is doing with the CSV is, it’s creating its own object/datatype called a **DataFrame**.
  + Running **>>> type(data)** on our “data” variable returns:
  + **<class ‘pandas.core.frame.DataFrame’>**

## Cheatsheet: Imported Modules:

In this section, you learned that:

* **Builtin objects** are all objects that are written inside the Python interpreter in C language.
* **Builtin modules** contain builtins objects.
* Some builtin objects are not immediately available in the global namespace. They are parts of a builtin module. To use those objects the module needs to be **imported** first. E.g.:
  1. import time
  2. time.sleep(5)
* **A list of all builtin modules** can be printed out with:
  1. import sys
  2. sys.builtin\_module\_names
* **Standard libraries** is a jargon that includes both builtin modules written in C and also modules written in Python.
* **Standard libraries** written in Python reside in the Python installation directory as .py files. You can find their directory path with sys.prefix.
* **Packages** are a collection of .py modules.
* **Third-party libraries** are packages or modules written by third-party persons (not the Python core development team).
* Third-party libraries can be **installed** from the terminal/command line:

Windows:

pip install pandas or use python -m pip install pandas if that doesn't work.

* Mac and Linux:

pip3 install pandas or use python3 -m pip install pandas if that doesn't work.

# Section 13: Using Python with CSV, JSON, and Excel Files:

## The “pandas” Data Analysis Library:

* A library providing data structures and data analysis tools/code within Python.
* It also has visualization tools such as **bokeh**, which we’ll cover later in the course.
* **Pandas** is better than, say, just an Excel spreadsheet for analyzing a large amount of data.

## Installing pandas and IPython:

* Install **pandas** using **pip3.10 install pandas**
  + I already took care of this in the last section, and had to change my interpreter to **Anaconda** to get it to work.
* Install **IPython** interactive shell using **pip3.10 install ipython**.
  + Ipython is an enhanced interactive shell that provides better printing for large text. This ability makes Ipython suitable for data analysis because the program prints data in a well-structured format.
* To use IPython, simply type “ipython” into terminal.

## Getting Started with pandas:

*Note: Resource for this lecture is a link to the Pandas Documentation*.

* He started by running **ipython** in a Windows CMD. Interesting.
* He then mentioned **Jupyter Notebook**, which is even better at data analysis and working with data.
  + It’s like a combination of a Python shell and a Python editor.
  + Browser-based.
* However, for this lecture we’re keeping things simple with just **pandas**.
* Into **ipython**, we ran **import pandas** to start off.
* We then created a DataFrame variable, **df1 = pandas.DataFrame([[2, 4, 6], [10, 20, 30]])**, a list of two lists. Entering **df1** afterwards returns the formatted DataFrame.
  + Up top are the Column Names (0, 1, 2) and to the side are the indexes (0, 1).
  + “The beauty of pandas is that you can have your own column names if you like”:
  + **df1 = pandas.DataFrame([[2, 4, 6], [10, 20, 30]], columns=[“Price”, “Age”, “Value”])**
  + You can also pass custom names for the indexes:
  + **df1 = pandas.DataFrame([[2, 4, 6], [10, 20, 30]], columns=[“Price”, “Age”, “Value”], index = [“First”, “Second”])**
  + However, you won’t normally need to do this for indexes; there could be hundreds or thousands or millions of them.
* There are other ways to pass in a DataFrame as well, which may be less common, such as a list of dictionaries:
  + **df2 = pandas.DataFrame([{“Name”: “John”}, {“Name”: “Jack”}])**: this outputs a table of the names John and Jack with “Name” as the column name.
  + If you want to add “Surname”, you’d add another key-value pair:
  + **df2 = pandas.DataFrame([{“Name”: “John”, “Surname”: “Johns”}, {“Name”: “Jack”}])**
  + This returns the table with the “Surname” column added. Top entry is John Johns; second entry has “NaN” for “Surname”.
* There are two basic ways to build DataFrames on the fly. However, you’ll usually be pulling data from files such as CSVs, Excel files, JSON files, etc.
* You can learn more about the DataFrames you create by using:
  + **type(df1)**: returns **pandas.core.frame.DataFrame**.
  + **dir(df1)**: returns the **methods** that can be used on the DataFrame.
  + Running **df1.mean()** gives you the mean of each column.
  + Running **df1.mean().mean()** gives the mean of the entire table.
  + Typing **type(df1.mean())** returns “pandas.core.series.Series”.
  + Typing **type(df1.Price)** also returns “pandas.core.series.Series”.
  + A DataFrame is made of Series.

## Installing Jupyter:

* To install:
  + Run **pip3.10 install jupyter**.
* To run Jupyter:
  + Type **jupyter notebook** into the terminal.
  + If that doesn’t work, try **py -3.10 -m jupyter notebook**.
  + When it works, you’ll see Jupyter Notebook open up in your default browser.
  + If you don’t want to install Jupyter Notebook or can’t install it, you can use Jupyter in the cloud. The link to this is here: <https://colab.research.google.com/#create=true>.

## Getting Started with Jupyter:

*Note: Resource for this lecture is a link to Jupyter Notebook Documentation*.

* He started by downloading Jupyter in a Windows CMD prompt. To start Jupyter, he said it’s good practice to first create a folder (he named his “test3”), and then **shift +** **right-click** inside the folder and choose “**Open Command Window Here**”.
  + Note: The option I’m given is to open PowerShell instead. Let’s see if that works.
  + Type **jupyter notebook** here. This opens Jupyter Notebook to your default browser.
    - Doing things this way ensures that all your Notebook files will be saved in the directory you opened the CMD/PowerShell from.
    - You can also manually **cd** into the folder you want.
* On J**upyter Notebook** in your browser, you can click on the “New” dropdown menu and select “Python 3” so that the kernel will be Python 3. If you’ve associated other languages with Jupyter they will also appear here.
* By default, the name of the Notebook is “**Untitled**”, but you can change this to whatever you want. We renamed this to “**Testing**”, and if you go to the file you opened Jupyter Notebook from you’ll find a file called “**Testing.ipynb**” in there. This is an IPython Notebook extension.
  + Each input “**cell**” in Jupyter Notebook can be thought of as a line in a normal Python interactive shell, but you can type multiple lines without executing by hitting enter after each line. To execute, press **CTRL + Enter**.
  + To create a new cell, hit **ALT + Enter**.
  + To execute the current cell AND go to the next cell in one move, use **Shift + Enter**.
  + You can delete cells by hitting **ESC** and then hitting **dd** for each cell you want to delete.
* Basically we have two modes: a **command mode** (press **ESC**) when you see grey outline, and **edit mode** (press **Enter**) where it’s outlined in green. In edit mode, you can go into a cell and add more lines to it.
  + You can go to **Help** and then select the **list of Keyboard Shortcuts** to see more of these shortcuts.
* If you want to re-open an existing Notebook, you go to the directory it’s saved in, right-click to open CMD/PowerShell, and type **jupyter notebook** to re-open it in your browser. The file will be just as you left it.
* Jupyter Notebook is best used for doing data explorations. So if you’re working with data analysis or data visualization.
* You can load data tables into it using **import pandas**. We type that into the first cell, then Shift + Enter to open a second cell and type **df = pandas.read\_csv()** to read in a CSV. He used this to pull up a CSV from his computer that looked to be a well-formatted table of temperatures.
* You can also use Jupyter Notebook for **web-scraping**.
  + In the first cell, he typed:
    - **from bs4 import BeautifulSoup**
    - **import requests**
    - **print(1)**
  + And in the second cell he typed:
    - **r=requests.get(**[**https://en.wikipedia.org/wiki/Eagle**](https://en.wikipedia.org/wiki/Eagle)**)**
    - **print(r.content)**
  + And in a third cell he had typed:
    - **soup=BeautifulSoup(r.content)**
    - **print(soup.prettify)**
  + in order to show that you can do work (scroll up and down, read, etc) on different cells without messing up any of them.

## Loading CSV Files:

*Note: Resources for this lecture include a link to Jupyter Notebook documentation and “supermarkets.zip”*.

* He opened up “**supermarkets.xlsx**” to show the data inside it (ID, address, city, etc). The same data is in 5 different files in different formats: .csv .json, .xlsx, a commas.txt, and a semicolons.txt.
* He noted that a .json file looks a lot like a Python dictionary.
* Inside the folder with all these files, we start **jupyter notebook**. All 5 of the files are listed in the tree.
* We then created a new Python 3.
  + A trick he likes to do right in the first cell is to type/run:
    - **import os**
    - **os.listdir()**
    - This gives you a list of filenames that you have in the current directory. That way you have all the names right in front of you and you don’t have to switch to your directory to get those names.
* He then ran **import pandas** in the second cell.
* In the third cell he started loading all the files one by one:
  + **df1=pandas.read\_csv(“supermarkets.csv”)**
  + **df1**
  + This output a nicely formatted table.

## Exercise: Loading JSON Files:

In  the previous lecture, you learned that you can load a CSV file with this code:

1. import pandas
2. df1 = pandas.read\_csv("supermarkets.csv")

Try loading the supermarkets.json file for this exercise using read\_json instead of read\_csv.

The supermarkets.json file can be found inside the supermarkets.zip file attached in the previous lecture.

* Running the above and outputting it in a new cell outputted an identically formatted table as in the .csv example.

## Note on Loading Excel Files:

In the next lecture, you will learn how to load Excel files in Python with *pandas*. For this, you need *pandas* (which you have already installed) and also two other dependencies that *pandas* needs for opening Excel files. You can install them with *pip*:

pip3.9 install openpyxl (needed to load Excel *.xlsx* files)

pip3.9 install xlrd (needed to load Excel old *.xls* files)

## Loading Excel Files:

* Similar to the previous examples, we want to read in an .xlsx file with:
  + **df3=pandas.read\_excel(“supermarkets.xlsx”, sheet\_name=0)**
  + **df3**
* Note that you need to pass in a second argument for the sheet number. Excel files can contain multiple sheets, so to get the data from the first sheet, sheet\_name=0 is needed.
* A similar table to the last few examples is output.

## Loading Data from Plain Text Files:

* Data structures separated by commas (or semicolons).
* For this we run:
  + **df4=pandas.read\_csv(“supermarkets-commas.txt”)**
  + **df4**
* This resulted in a similar table to the previous examples.
* Note that “CSV” stands for “Comma-Separated Value” or “Character-Separated Value”.
* As a result of this, we can pass in a second “separator” argument:
  + **df5=pandas.read\_csv(“supermarkets-semi-colons.txt”, separator=“;”)**
  + **df5**
  + However, this resulted in an error that said something like “read\_csv does not have a ‘separator’ argument”. To find out what we CAN use, he ran **pandas.read\_csv?** In a separate cell. Up near the top, it listed “**sep=’ a’”** as the argument name, so:
  + **df5=pandas.read\_csv(“supermarkets-semi-colons.txt”, sep=“;”)**
  + **df5**
  + This resulted in a table similar to the rest. And that’s all the files.

## Set Table Header Row:

* He opened **supermarkets.json** and compared it to what **pandas** output to show that the header row matched between the two.
* He then pointed out that sometimes you end up with data where there’s no header line. He had a “data.txt” file that was the same as the other files, but without the header row in it.
  + If you load that data.txt and print it out, whichever row is at the top is set as the header, meaning in this case that some of the data was presented in **bold** and treated like a header row.
* To get around this, you would run:
  + **df8=pandas.read\_csv(“data.txt”, header=None)**
  + **df8**
  + This outputs a header of index numbers starting at 0.
* From here, we can then assign column names to all these numbers (shown in next lecture).

## Set Column Names:

* Picking up from last lecture:
* He ran:
  + **df8.columns = [“ID”, “Address”, “City”, “State”, “Country”, “Name”, “Employees”]**
  + **df8**
  + Note: The order is important here.

## Set Index Column:

* Sometimes you might want just a slice of the table, or a specific value within it. To do this you need to coordinate between the column and the row.
* This can be done with the automatically assigned **index numbers** on the lefthand side of the table, or even with the numbers in the **ID** column.
* From our previous example table, we run:
  + **df8.set\_index(“ID”)**
  + Note that when you apply this method, it produces a new table with the ID as the index. However, if you output the original table again, it’s back to having the old index numbers.
  + You can get around this by running: **df9=df8.set\_index(“ID”)**
* Another way you can do this is:
  + **df8.set\_index(“ID”, inplace=True)** to skip a step. This modifies df8 permanently.
  + However, you need to be careful with this. As an example, he ran **df8.set\_index(“Address”, inplace=True)** to show that the “ID” column is now gone.
* However, there’s a way to avoid this:
  + **df8.set\_index(“Name”, inplace=True, drop=False)**; this keeps the column from deleting.
  + “Name” is now an index, but the “Name” column is also still present to the right.

## Filtering Data from a pandas DataFrame:

* Deleting, adding, or modifying rows and columns in your DataFrame.
  + Note: At this point we’re working with a DataFrame that’s had its index set to be “Address” without dropping any other columns.
* How DataFrames are indexed and how you can slice/extract from them:
  + **Label-based indexing**:
    - You use the labels of rows and columns to access your data.
    - In label-based indexing you want to use the **.loc[]** method.
    - **df7.loc[“735 Dolores St”:”332 Hill St”, “Country”:”ID”]** gives you a range from one address to the other and a range from “Country” to “ID”**.**
    - You can also access single cells of your table by inputting single labels instead of ranges.
    - You can also convert the data you extract into a list:
      * **list(df7.loc[:,”Country”])** for example.
  + **Position-based indexing.** 
    - You use indexes instead of label names.
    - You use the **.iloc[]** method.
    - **df7.iloc[1:3,1:4]**
    - However, similar to Python lists, this is upper-bound exclusive. The higher index gets left out.
    - You can also get all rows with **[ : , 1:4]** or a single row **[3 , 1:4]**.

## Deleting Columns and Rows:

* Similar to terminology I know from MySQL.
  + **df7.drop(“City”, 1)** to delete the “City” column. Note that this is not an in-place operation and will not update your DataFrame.
    - Pass **0** to drop a row.
    - Pass **1** to drop a column.
* You can also make changes in-place with:
  + **df7=df7.drop(“332 Hill St”, 0)**
* If you want to drop columns or rows based on indexing:
  + **df7.drop(df7.index[0:3], 0)** deletes the rows from index 0 to index 3.
  + **df7.drop(df7.columns[0:3], 1)** deletes the rows from index 0 to index 3.

## Updating and Adding New Columns and Rows:

* Syntax for adding a **column**:
  + **df7[“Continent”]=[“North America”]**
  + Running that on its own gives you an error saying “length of values is not equal to length of index”.
  + **df7[“Continent”]=[“North America”, “North America”, “North America”, “North America”, “North America”]**
  + or:
  + **df7[“Continent”]=df7.shape[0]\*[“North America”]**
    - Note: Running **df7.shape** outputs “(5, 7)”, meaning 5 rows and 7 columns. “.shape[0]” multiplies “North America” by 5 in this case, to fill it in for all 5 rows.
  + This is an in-place operation.
* Syntax for modifying a **column**:
  + **df7[“Continent”]=df7[“Country”]**+ “, ” + “North America”
  + **df7**
  + This updates the “Continent” column to change its contents from “North America” to “USA, North America”.
* Syntax for adding a new **row**:
  + In his words, “this can be a bit tricky”. There’s no easy method to pass a row to a DataFrame.
  + **df7\_t=df7.T** where **.T** is the “*transpose*” method. This swaps your rows and columns.
  + We can now do :
  + **df7\_t[“My Address”]=[“My City”, “My Country”, 10, 7, “My Shop”, “My State”, “My Continent”]**
  + There’s now a new column with those row entries tacked onto the right end.
  + Now: **df7=df7\_t.T** transposes our transposed table and updates **df7** to include the new row at the bottom.
* Syntax to modify an existing **row**:
  + You’d modify it at stage where it’s in its transposed state:
  + **df7\_t[“3666 21st St”]=[“My City”, “My Country”, 10, 7, “My Shop”, “My State”, “My Continent”]**
  + Then executing all the lines after that will update everything.

## Note:

We are going to use Nominatim() in the next video. Nominatim() currently has a bug. To fix this problem, whenever you see these lines in the next video:

1. from geopy.geocoders import Nominatim
2. nom = Nominatim()

change them to these

1. from geopy.geocoders import ArcGIS
2. nom = ArcGIS()

The rest of the code remains the same.

## Data Analysis Example: Converting Addresses to Coordinates:

* We’re going to grab the addresses from our DataFrame and convert it into **latitude** and **longitude** coordinates.
* This process is called **geo-coding**, and its reverse is **reverse geo-coding**.
* We’re going to add two columns to our DataFrame: one for latitude and one for longitude.
* **Pandas** can’t do this directly, so we’re going to use a library called **geopy**.
  + Run **pip3.10 install geopy**.
  + After it’s installed:
  + Running **import geopy** followed by **dir(geopy)** shows that one of its module is “**geocoders**”. Now, “geocoders” needs an internet connection to work, so keep that in mind. It takes the address and it sends it to an online service that has all these in a database, and it’ll calculate the corresponding latitude and longitude values.
  + ~~Run~~ **~~from geopy.geocoders import Nominatim~~**
  + Update:
  + **from geopy.geocoders import ArcGIS**
  + **nom = ArcGIS()**
  + **nom.geocode(“3995 23rd St, San Francisco, CA 94114”)**
  + This outputs a Location datatype with the full address followed by the latitude and longitude. It’s rare, but sometimes you get a None object for non-existing addresses.
* You can store the result in a variable to work on it:
  + **n=nom.geocode(“3995 23rd St, San Francisco, CA 94114”)**
  + Running **n.latitude** outputs the latitude, **n.longitude** does longitude.
* Now how about converting an entire column of a DataFrame into a latitude and longitude?
* We’ll be starting with our original .csv at this point:

**import pandas**

**from geopy.geocoders import ArcGIS**

**nom=ArcGIS()**

**df=pandas.read\_csv("supermarkets.csv")**

**df**

* We need to construct a column or modify an existing one:
  + **df[“Address”]=df[“Address”] + “, ” + df[“City”] + “, ” + df[“State”] + “, ” + df[“Country”]**
  + **df**
* And now we see the full address printed in the “Address” column for each row. We now need to send that string to the geocode method for all those. **Pandas** allows us to do this without iterating/looping.
  + **df[“Coordinates”] = df[“Address”].apply(nom.geocode)**
  + **df**
* After a few seconds, this is calculated and output. My screen was too small to see the coordinates, but running **df.Coordinates[0]** shows just that portion for whichever index.
* Now, we may want to add a new column each for the latitude and the longitude:
  + **df[“Latitude”]=df[“Coordinates”].apply(lambda x: x.latitude if x != None else None)**
  + **df[“Latitude”]=df[“Coordinates”].apply(lambda y: y.latitude if y != None else None)**
  + **df**
* And we’re done!!

# Section 14: Numerical and Scientific Computing with Python and Numpy:

## What is Numpy?

*Note: Resources for this lecture include Numpy Documentation and “smallgray.png”*.

* He started by zooming in on a grayscale image made up of 15 pixels (“smallgray.png”).
* Each pixel has a numerical value that is converted to visual colors.
* Python stores pixels/colors/images as arrays of numbers (he went into Jupyter Notebook for this part):
  + This image could be represented as a list of three other lists (one for each row), and in each list you could have 5 different numbers (for the 5 columns).
  + This isn’t the most efficient way to do this, as lists occupy lots of memory, and therefore they slow down operations on them.
  + This can be solved by **numpy** which is a Python library that provides a multidimensional array object.
* The first thing you want to do is import numpy (which should’ve been installed with **pandas**, because pandas is based on numpy):
  + **import numpy**
  + **n=numpy.arange(27)**
  + **n**
  + This outputs an array of “**array([0, 1, …, 26, 27])**”. This is just a one-dimensional list. Checking its **type()** returns **numpy.ndarray** meaning an N-dimensional array.
  + Running **print(n)** just gives us a list of **[0, 1, …, 26, 27]**.
* Now let’s see what a 2-dimensional array looks like:
  + **n.reshape(3, 9)**
  + This gives us an array of 3 lists:
    - **array([[0, 1, …, 8], [9, 10, …, 17], [18, 19, …, 26]])**
  + An example of a 2-dimensional array would be the pixels in that image (or any image).
* Calendar

  Description automatically generated with low confidenceWe could also do a 3-dimensional array:
  + **n.reshape(3, 3, 3)**
  + This gives us an array of 3 lists of 3 lists of 3:
    - See right 🡪
* He noted the similarities between Numpy arrays and Python lists.
* Numpy makes it easier to iterate through these arrays. You can also make numpy arrays out of Python lists.
* To show this:
* To show this, he copied a list he manually made at the beginning of the lecture:
  + **[ [123, 12, 123, 12, 33], [ ], [ ] ]**
* Then he created a new object:
  + **m=numpy.asarray( [[123, 12, 123, 12, 33], [ ], [ ]] )**
  + **print(m)**
  + Printing this out showed they print out the same, but are different datatypes when you run **type()** on them.

## Installing OpenCV:

*Note: Resource for this lecture is “OpenCV Documentation”*.

In the next lecture, and in Section 17, we will use the OpenCV image processing library. Let us first make sure you have installed the OpenCV library. OpenCV is also referred to as cv2 in Python.

**How to Install OpenCV**

To install OpenCV for Python 3.9 on **Mac** or **Linux**, execute the following in the terminal:

* python3.9 -m pip install opencv-python

To install OpenCV for Python 3.9 on **Windows**, execute the following in the terminal:

* py -3.9 -m pip install opencv-python

**Note: The above commands work for Python 3.9. You may need to replace the 3.9 part from the commands with the number of the Python version you are using in your system. For example, you may need to type**python3.10**instead of**python3.9.

Once the installation completes, open a Python session and try:

* import cv2

If you get no errors, you installed OpenCV successfully. If you get an error, see the FAQs below:

**FAQs**

**1. My OpenCV installation didn't work on Windows**

Solution:

1. Uninstall OpenCV with:

* py -3.9 -m pip uninstall opencv-python

2. Download a wheel (.whl) file from [this link](http://www.lfd.uci.edu/~gohlke/pythonlibs/#opencv) and install the file with pip. Make sure you download the correct file for your Windows and your Python versions. For example, for Python 3.6 on Windows 64-bit, you would do this:

* py -3.9 -m pip install opencv\_python‑3.2.0‑cp39‑cp39m‑win\_amd64.whl

3. Try to import cv2 in Python again. If there's still an error, type the following again in the command line:

* py -3.9 -m pip install opencv-python

4. Try importing cv2 again. It should work at this point.

**2. My OpenCV installation didn't work on Mac**

Solution:

If python3.9 -m pip install opencv-python here are alternative steps to install OpenCV:

1. Install brew.

To install brew, open your terminal, and execute the following:

* /usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"

2. OpenCV depends on GTK+, so install that dependency first with brew (always from the terminal):

* brew install gtk+

3. Install OpenCV with brew:

* brew install opencv

4. Open Python and try to import OpenCV with:

* import cv2

If you get no errors, you installed OpenCV successfully.

**3. My OpenCV installation didn't work on Linux**

1. Open your terminal and execute the following commands, one by one:

1. sudo apt-get install libqt4-dev
2. cmake -D WITH\_QT=ON ..
3. make
4. sudo make install

2. 2. If the above commands don't work, execute this:

1. sudo apt-get install libopencv-\*

3. Then, install OpenCV with pip: python3.9 -m pip install opencv-python

4. Import cv2 in Python. If you get no errors, you installed OpenCV successfully.

## Convert Images to Numpy Arrays:

* He started by testing that he could import cv2 correctly (let it run in its own cell):
  + **import cv2**
  + **im\_g=cv2.imread(“smallgray.png”, 0)**:
    - **0** if you want to read the image in grayscale.
    - **1** if you want to read the image in BGR (blue-green-red).
  + **im\_g**
  + This returns a 2-dimensional array, 3 lists of 5 values. Each value corresponds to one of the grayscale pixels.
  + The grayscale numbers range from 0 to 255, with 0 being pitch black and 1 being pure white. Our three white pixels are represented in the array as 255.
* However, if we change our second argument to **1**:
  + **im\_g=cv2.imread(“smallgray.png”, 1)**:
  + **im\_g**
  + We get a 3-dimensional array instead. Each of the three parts of the array is an array of 5 lists of 3 numbers. This is because the color values are bands layered on top of each other.
  + The three layers are the **blue**, the **green**, and the **red**.
  + Keep in mind that when printed out, the columns are presented horizontal and the rows are presented vertical.
* So this is how we get **numpy** arrays out of images. But what if we want to get images out of a numpy array?
  + **cv2.imwrite(“newsmallgray.png”, im\_g)**
  + This returns **True** and creates a new image named “newsmallgray.png” in our folder.

## Indexing, Slicing, and Iterating Numpy Arrays:

* This is similar to slicing a list: **a=[1,2,3]**, **a[0:1]** gives 1, **a[0:2]** gives [1,2]. With numpy arrays it’s more or less the same thing, except you may have 2 or 3 dimensions.
* We’ll start with **indexing** our 2-dimensional array:
  + **im\_g=cv2.imread(“smallgray.png”, 0)**:
  + **im\_g[0:2]** returns an array of the first two rows.
  + If we want to then slice the 3rd and 4th columns:
  + **Im\_g[0:2, 2, 4]** returns us just those columns from those rows.
  + So slicing goes **rows first**, **then columns next**.
  + You can also use **im\_g.shape** to see the shape of your array: (3, 5) or 3 rows, 5 columns.
* Next up, **iterating** over an array:

**for i in im\_g:**

**print(i)**

* This will print out the **rows**: the **i-axis is rows**.
  + You’ll get **3** rows of **5** values.
* If you want to iterate through **columns**, you’d want to use **im\_g.T** to transpose the array.

**for i in im\_g.T:**

**print(i)**

* + This will give you **5** rows (transposed columns) of **3** values each.
* If you want to iterate **value-by-value**:

**for i in im\_g.flat:**

**print(i)**

* + This prints out each value individually, in order.

## Stacking and Splitting Numpy Arrays:

* Still working with **im\_g** array from previous lecture.
* First off, we’re going to *stack* two **numpy** **arrays**:
  + For this we’re going to start by creating a new storage variable:
  + **ims=numpy.hstack( (im\_g, im\_g, im\_g) )** for horizontal stack, with a tuple of numpy arrays because it can only take one argument.
    - This stacks the arrays horizontally, side-by-side, looking like a matrix that’s longer in the x-direction.
  + ![Graphical user interface, text

    Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TK+RXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA4OjE2IDEyOjQzOjI4AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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u6K4T/hakX/AECrz/vhv8KP+FqRf9Aq8/74b/CiwWO7orhP+FqRf9Aq8/74b/Cj/hakX/QKvP8Avhv8KLBY7uiuE/4WpF/0Crz/AL4b/Cj/AIWpF/0Crz/vhv8ACiwWO7orhP8AhakX/QKvP++G/wAKP+FqRf8AQKvP++G/wosFju6K4T/hakX/AECrz/vhv8KP+FqRf9Aq8/74b/CiwWO7orhP+FqRf9Aq8/74b/Cj/hakX/QKvP8Avhv8KLBY7uiuE/4WpF/0Crz/AL4b/Cj/AIWpF/0Crz/vhv8ACiwWO7orhP8AhakX/QKvP++G/wAKP+FqRf8AQKvP++G/wosFju6K4T/hakX/AECrz/vhv8KP+FqRf9Aq8/74b/CiwWO7orhP+FqRf9Aq8/74b/Cj/hakX/QKvP8Avhv8KLBY7uiuE/4WpF/0Crz/AL4b/Cj/AIWpF/0Crz/vhv8ACiwWO7orhP8AhakX/QKvP++G/wAKP+FqRf8AQKvP++G/wosFju6K4T/hakX/AECrz/vhv8KP+FqRf9Aq8/74b/CiwWO7orhP+FqRf9Aq8/74b/Cj/hakX/QKvP8Avhv8KLBY7uiuE/4WpF/0Crz/AL4b/Cj/AIWpF/0Crz/vhv8ACiwWO7orhP8AhakX/QKvP++G/wAKP+FqRf8AQKvP++G/wosFju6K4T/hakX/AECrz/vhv8KP+FqRf9Aq8/74b/CiwWO7orhP+FqRf9Aq8/74b/Cj/hakX/QKvP8Avhv8KLBY7uiuE/4WpF/0Crz/AL4b/Cj/AIWpF/0Crz/vhv8ACiwWO7orhP8AhakX/QKvP++G/wAKP+FqRf8AQKvP++G/wosFju6K4T/hakX/AECrz/vhv8KP+FqRf9Aq8/74b/CiwWO7orhP+FqRf9Aq8/74b/Cj/hakX/QKvP8Avhv8KLBY7uiuE/4WpF/0Crz/AL4b/Cj/AIWpF/0Crz/vhv8ACiwWO7orhP8AhakX/QKvP++G/wAKP+FqRf8AQKvP++G/wosFju6K4T/hakX/AECrz/vhv8KP+FqRf9Aq8/74b/CiwWO7pCa4X/hakX/QKvP++G/woPxUh/6BN5/3w3+FAjusj0oyPSuE/wCFqQ/9Am8/74b/AOJo/wCFqQ/9Am8/74b/AOJphc7vI9KMj0rhP+FqQ/8AQJvP++G/+Jo/4WpD/wBAm8/74b/4mgLnd5HpRkelcJ/wtSH/AKBN5/3w3/xNH/C1If8AoE3n/fDf/E0Bc7vI9KMj0rhP+FqQ/wDQJvP++G/+Jo/4WpD/ANAm8/74b/4mgLnd5HpRkelcJ/wtSH/oE3n/AHw3/wATR/wtSH/oE3n/AHw3/wATQFzu8j0oyPSuE/4WpD/0Cbz/AL4b/wCJo/4WpD/0Cbz/AL4b/wCJoC53eR6UZHpXCf8AC1If+gTef98N/wDE0f8AC1If+gTef98N/wDE0Bc7vI9KMj0rhP8AhakP/QJvP++G/wDiaP8AhakP/QJvP++G/wDiaAud3kelGR6Vwn/C1If+gTef98N/8TR/wtSH/oE3n/fDf/E0Bc7vI9KK4T/hakP/AECbz/vhv/iaKAudr9jiwPl/rR9ji/u/pU9FTcRALGLP3f0p62cQ/hFSUoNFwI/skX9yj7LF/cFS7qN1ICL7LF/cFH2WL+4Kl3UZFAEX2WL+4KPssX9wVLkUZFAEX2WL+4KPssX9wVLkUZFAEX2WL+4KPssX9wVLkUZFAEX2WL+4KPssX9wVLkUZFAEX2WL+4KPssX9wVLkUZFAEX2WL+4KPssX9wVLkUbhQBF9li/uCj7LF/cFS7qN1AEX2OI/wCm/YYf7tTE0lAEX2GH+7S/Y4l/hqSimBGLeMfwD8qXyU/uj8qfRSAZ5Kf3B+VHkp/cH5U+igBnkp/cH5UeSn9wflT6KAI/s8X/PMUfZ4v+ea/lUlFMZH9mi/55r+VH2aL/nmv5VJRRcLkf2aL/nmv5UfZov+ea/lUlFFwuR/Zov+ea/lR9mi/wCea/lUlFFwuR/Zov8Anmv5UfZov+ea/lUlFFwuR/Zov+ea/lR9mi/55r+VSUUXC5H9mi/55r+VH2aL/nmv5VJRRcLkf2aL/nmv5UfZov8Anmv5VJRRcLkf2WHvGv5UfZYf+ea/lUlFAiP7LD/zzX8qT7LD/wA81/KpaKLgRfZYv+ea/lR9li/55r+VS0UXGRfZYf8Anmv5Uv2WH/nmv5VJRRcRF9lh/wCea/lR9lh/55r+VS0UXHcj+zRf881/Kj7NF/zzX8qkoouFyP7NF/zzX8qPs0X/ADzX8qkoouFyP7NF/wA81/Kj7NF/zzX8qkoouFyL7LD/AM81/Kj7LD/zzX8qloouFyL7LD/zzX8qPssQ/wCWa/lUtFFwuR/Zov8Anmv5UfZov+ea/lUlFFwuR/Z4v+ea/lR9ni/55r+VSUUAR/Z4v+ea/lR9mi/55r+VSUUXC5H9mi/55r+VH2aL/nmv5VJRRcLkf2aL/nmv5UfZov8Anmv5VJRRcLkf2aL/AJ5r+VH2aL/nmv5VJRRcLkf2aL/nmv5UfZov+ea/lUlFFwuR/Zov+ea/lR9mi/55r+VSUUXC5H9mi/55r+VH2aL/AJ5r+VSUUXC5H9mi/wCea/lR9mi/55r+VSUUXC5H9mi/55r+VH2aL/nmv5VJRRcLkf2aL/nmv5UfZov+ea/lUlFFwuR/Zov+ea/lR9mi/wCea/lUlFFwuR/Z4v8Anmv5UfZ4v+ea1JRQBH9ni/55r+VH2eL/AJ5r+VSUUAR/Z4v+ea/lR9ni/wCea/lUlFAEf2eL/nmv5UfZ4v8Anmv5VJRQBH9ni/55r+VH2eL/AJ5r+VSUUAR/Z4v+ea/lR9ni/wCea/lUlFAEf2eL/nmv5UfZ4v8Anmv5VJRQBH9ni/55r+VH2eL/AJ5r+VSUUAR/Z4v+ea/lR9ni/wCea/lUlFAEf2eL/nmv5UfZ4v8Anmv5VJRQBH9ni/55r+VH2eL/AJ5r+VSUUAR/Z4v+ea/lR9ni/wCea/lUlFAEf2eL/nmv5UfZ4v8Anmv5VJRQBH9ni/55r+VH2eL/AJ5r+VSUUAR/Z4v+ea/lR9ni/wCea/lUlFAEf2eL/nmv5UfZ4v8Anmv5VJRQBH9ni/55r+VH2eL/AJ5r+VSUUAR/Z4v+ea/lR9ni/wCea/lUlFAEf2eL/nmv5UfZ4v8Anmv5VJRQBH9ni/55r+VH2eL/AJ5r+VSUUAR/Z4v+ea/lR9ni/wCea/lUlFAEf2eL/nmv5UfZ4v8Anmv5VJRQBH9ni/55r+VH2eL/AJ5r+VSUUAR/Z4v+ea/lR9ni/wCea/lUlFAEf2eL/nmv5UfZ4v8Anmv5VJRQBH9ni/55r+VH2eL/AJ5r+VSUUAR/Z4v+ea/lR9ni/wCea/lUlFAEf2eL/nmv5UfZ4v8Anmv5VJRQBH9ni/55r+VH2eL/AJ5r+VSUUAR/Z4v+ea/lR9ni/wCea/lUlFAEf2eL/nmv5UfZ4v8Anmv5VJRQBH9ni/55r+VH2eL/AJ5r+VSUUAR/Z4v+ea/lR9ni/wCea/lUlFAEf2eL/nmv5UfZ4v8Anmv5VJRQBH9ni/55r+VH2eP/AJ5r+VSUUARfZ4/+ea0fZ4/+ea1LRRcLkX2eP/nmtH2eP/nmtS0UXC5F9nj/AOea0fZ4/wDnmtS0UXC5F9nj/wCea0fZ4/8AnmtS0UXC5F9nj/55rR9nj/55rUtFFwuRfZ4/+ea0fZ4/+ea1LRRcLkX2eP8A55rR9nj/AOea1LRRcLkX2eP/AJ5rR9nj/wCea1LRRcLkX2eP/nmtH2eP/nmtS0UXC5F9nj/55rRUtFFwuFFFFIQUUUUAFFFFABRRRTGFFFFMYUUUUAFFFFABRRRSEFFFFABRRRQAUUUUhBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH//2Q==)**ims=numpy.vstack( (im\_g, im\_g, im\_g) )** for vertical stack.
    - This stacks the arrays on top of each other, in the y-direction.
* Note that if you try and concatenate arrays that have different dimensions, you’ll get an error.
* Next up, we have splitting a **numpy array**:
  + We start by creating storage variable:
  + **lst=numpy.hsplit(ims, 3)** gives us an error saying “array split doesn’t result in an equal division”.
    - The reason for this is that the array has 5 columns.
  + **lst=numpy.hsplit(ims, 5)** gives us vertical arrays of 9 values, representing each column split off from the total array.
  + **lst=numpy.vsplit(ims, 3)** gives us three vertically stacked arrays made up of three rows each of the previously stacked array.

Graphical user interface, text, table

Description automatically generated**h-split: v-split:**

A picture containing table

Description automatically generated

* Note that **type(lst)** outputs that it’s a Python list of numpy arrays.

# Section 15: App 1: Web Mapping with Python: Interactive Mapping of Population and Volcanoes:

## Demo of the Web Map:

*Note: Resource for this lecture is “Webmap\_datasources.zip”*.

* Showed off his web-based map made with **Folium**, which is a Python library.
* It has 3 layers:
  + A base map with names, etc.
  + A polygon layer that shows populations of countries.
  + Point layer for volcano locations.

## Creating an HTML Map with Python:

*Note: Resource for this lecture is a link to “Folium Documentation”*.

* Doing everything in this project strictly with Python would make Python very heavy. It doesn’t have this sort of functionality.
* So we’re going to use a third-party library, **Folium**, to help build this map.
  + Note: He had to redo some videos in this section because Folium had made some changes.
* Starting off, we’re going to create an empty folder to store files for this project.
* From the empty folder, he right-clicked and opened an **Atom** session in that location. Not sure why he’s using Atom now, but I’m going to stick with **VSCode** at first to see if I can just keep using that.
  + So far so good with VSCode (written from next lecture video).
* Run **pip3.10 install folium** to install it.
* In our interactive shell, we run **import folium**. If we don’t get an error, then it installed successfully.
* We then create a map object with **map = folium.Map**. “Map” is the class that creates this object.
  + We can also check **>>> dir(folium)** to get a list of available objects that we can use.
  + We can also check **>>> help(folium.Map)** to see what we can pass to this map object.
  + Basically, it allows us to write Python code that will automatically be converted into JavaScript, HTML, and CSS code, since you need these three things to make an interactive webpage.
* So:
  + **import folium**
  + **map = folium.Map(location=[80, -100])**
  + **map.save(“Map1.html”)**
    - If we open this .html in a browser, it opens a web map at a random location in northern Canada, “Meighen Island”. If you pan around and scroll in, you see more details of the map.
    - If you want a different starting location, you can change the coordinates. You can search a place on Google Maps, right-click and select “what’s here”, then copy/paste those coordinates. I think I’ll change mine to **[47.608597, -122.333759]**, placing it somewhere in downtown Seattle.
  + We can also add a “Zoom” parameter:
  + **map = folium.Map(location=[47.608597, -122.333759], zoom\_start=6)**
  + **map.save(“Map1.html)** this zoomed the map out.

## Adding a Marker to the Map:

* The default layer our map comes in with is from OpenStreetMas.
* But we can also add other **base layers** and even **point markers**.
  + ***Note:*** *This is where the note he left comes in, to use* ***tiles = “Stamen Terrain”*** *instead of tiles = “Mapbox Bright” from the Note between these two lectures*.
* Running **>>> help(folium.Map)** again and scrolling down to the “**Parameters**” section shows that we can pass in a parameter called **tiles**.
* We set this to **tiles = “Stamen Terrain”**:

import folium

map = folium.Map(location=[47.60, -122.33], zoom\_start=6, **tiles="Stamen Terrain")**

map.save("Map1.html")

* Now when we open our **“Map1.html”**, we see that the background has changed, and we have a new base map.
* Now we’re going to add some **point markers** on top of the base map.
  + We check **>>> dir(folium)** and we see that there’s an object class called “**Marker**” and one called “**CircleMarker**”. We do this by creating a “child” for our “map” object:
  + **map.add\_child(folium.Marker())**
  + Now, this **.Marker()** method expects some arguments, so we run:
    - **>>> help(folium.Marker)** tells us it can take “**location**”, “**popup**”, and “**icon**” arguments.

import folium

map = folium.Map(location=[47.60, -122.33], zoom\_start=6, tiles="Stamen Terrain")

**map.add\_child(folium.Marker(location=[47.9, -122.7], popup="Hi I am a Marker", 🡪 icon=folium.Icon(color='green')))** 🡨 🡨 🡨

map.save("Map1.html")

* Now when we refresh **Map1.html**, these changes are present.
* However, he has a suggestion for adding “children” to our map object. He suggests creating a “feature group”, **fg = folium.FeatureGroup(name=”My Map”)**; this allows us to add multiple children to our map, inside of a feature group bucket.
* We then add **map.add\_child(fg)** at the end before saving, so all the children in the feature group come it at once. Keeps code more organized.
* **See on next page:**

import folium

map = folium.Map(location=[47.60, -122.33], zoom\_start=6, tiles="Stamen Terrain")

**fg = folium.FeatureGroup(name="My Map")** 🡨 🡨 🡨

**fg.add\_child(folium.Marker(location=[47.9, -122.7], popup="Hi I am a Marker", 🡪 icon=folium.Icon(color='green')))** 🡨 🡨 🡨

map.add\_child(**fg**) 🡨 🡨 🡨

map.save("Map1.html")

## Practicing “for-loops” by Adding Multiple Markers:

* We’re going to use a for-loop to add multiple markers to the map:

import folium

map = folium.Map(location=[47.60, -122.33], zoom\_start=6, tiles="Stamen Terrain")

fg = folium.FeatureGroup(name="My Map")

**for coordinates in [[48.00, -122.70], [47.00, -121.75]]:** 🡨 🡨 🡨

fg.add\_child(folium.Marker(location=**coordinates**, popup="Hi I am a Marker", 🡪 icon=folium.Icon(color='green')))

map.add\_child(fg)

map.save("Map1.html")

## Practicing File Processing by Adding Markers from Files:

*Note: Resources for this lecture include links to “Folium Documentation” and “Pandas Documentation”*.

* We started this lecture by opening “Volcanoes.txt” (or “Volcanoes.csv” if we chose to convert it) and looking at the different fields/column names. Much of this information can be useful in making our map features, but we’re especially interested in **LAT** and **LON** coordinates.
* In the Python interactive shell, he ran:
  + **import pandas**
  + **data = pandas.read\_csv(“Volcanoes.csv”)**
  + **data**
  + This outputs all the .csv data formatted into a nice table, a **DataFrame**.
* Now he’s thinking of creating two lists out of these DataFrame columns, one for latitude and one for longitude.
* We’re then going to pass these into our for-loop to iterate in the “location=” variable:

import pandas

import folium

data = pandas.read\_csv("Volcanoes.csv")

lat = list(data["LAT"])

lon = list(data["LON"])

map = folium.Map(location=[47.60, -122.33], zoom\_start=6, tiles="Stamen Terrain")

fg = folium.FeatureGroup(name="My Map")

for lt, ln in zip(lat, lon):

fg.add\_child(folium.Marker(location=[lt, ln], popup="Hi I am a Marker", icon=folium.Icon(color='green')))

map.add\_child(fg)

map.save("Map1.html")

## Practicing String Manipulation by Adding Text on the Map Popup Window:

* In this lecture, we’re going to add the Elevation values to the popup window for each marker.
* We extract the list and pass it into the for-loop just like the latitude and longitude values.
  + **elev = list(data[“ELEV”])**
  + Then pass **lt, ln, el** in **zip(lat, lon, elev):**
    - Note: He paused the video to say that you may get a blank webpage sometimes if there are quotes (‘) in the strings. To avoid that, change the popup argument to:
    - **popup=folium.Popup(str(el), parse\_html=True)**
    - However, this wasn’t an issue in my case. Could be useful information later.

import pandas

import folium

data = pandas.read\_csv("Volcanoes.csv")

lat = list(data["LAT"])

lon = list(data["LON"])

**elev = list(data["ELEV"])** **🡨 🡨 🡨**

map = folium.Map(location=[47.60, -122.33], zoom\_start=6, tiles="Stamen Terrain")

fg = folium.FeatureGroup(name="My Map")

for lt, ln, **el** in zip(lat, lon, **elev**): **🡨 🡨 🡨**

fg.add\_child(folium.Marker(location=[lt, ln], **popup=str(el)+"m",** icon=folium.Icon(color='green'))) **🡨 🡨 🡨**

map.add\_child(fg)

map.save("Map1.html")

## Adding HTML on Popups:

Note that if you want to have stylized text (bold, different fonts, etc) in the popup window you can use HTML. Here's an example:

1. import folium
2. import pandas
4. data = pandas.read\_csv("Volcanoes.txt")
5. lat = list(data["LAT"])
6. lon = list(data["LON"])
7. elev = list(data["ELEV"])
9. html = """<h4>Volcano information:</h4>
10. Height: %s m
11. """
13. map = folium.Map(location=[38.58, -99.09], zoom\_start=5, tiles="Mapbox Bright")
14. fg = folium.FeatureGroup(name = "My Map")
16. for lt, ln, el in zip(lat, lon, elev):
17. iframe = folium.IFrame(html=html % str(el), width=200, height=100)
18. fg.add\_child(folium.Marker(location=[lt, ln], popup=folium.Popup(iframe), icon = folium.Icon(color = "green")))

21. map.add\_child(fg)
22. map.save("Map\_html\_popup\_simple.html")

You can even put links in the popup window. For example, the code below will produce a popup window with the name of the volcano as a link which does a Google search for that particular volcano when clicked:

1. import folium
2. import pandas
4. data = pandas.read\_csv("Volcanoes.txt")
5. lat = list(data["LAT"])
6. lon = list(data["LON"])
7. elev = list(data["ELEV"])
8. name = list(data["NAME"])
10. html = """
11. Volcano name:<br>
12. <a href="https://www.google.com/search?q=%%22%s%%22" target="\_blank">%s</a><br>
13. Height: %s m
14. """
16. map = folium.Map(location=[38.58, -99.09], zoom\_start=5, tiles="Mapbox Bright")
17. fg = folium.FeatureGroup(name = "My Map")
19. for lt, ln, el, name in zip(lat, lon, elev, name):
20. iframe = folium.IFrame(html=html % (name, name, el), width=200, height=100)
21. fg.add\_child(folium.Marker(location=[lt, ln], popup=folium.Popup(iframe), icon = folium.Icon(color = "green")))
23. map.add\_child(fg)
24. map.save("Map\_html\_popup\_advanced.html")

## Practicing Functions by Creating a Color Generation Function for Markers:

* So now we have a map with 62 markers for volcano locations in the US.
* However, we can convey more information if we change the colors of some of the map markers to denote elevation:
  + **Green:** 0 – 1000m
  + **Orange:** 1000 – 3000m
  + **Red:** 3000m +
* Currently we’re just passing an argument to **fg.add\_child()** that says **icon=folium.Icon(color=’green’)**. We want to replace this based on elevation.
  + Unfortunately, Folium doesn’t have native functionality to do this.
  + We need to use Python code functionalities to do this.
  + We’re going to use a **function**.

for lt, ln, el, name in zip(lat, lon, elev, name):

    iframe = folium.IFrame(html=html % (name, name, el), width=200, height=100)

fg.add\_child(folium.Marker(location=[lt, ln], popup=folium.Popup(iframe), icon=folium.Icon(**color=color\_producer(el)**)))

def color\_producer(elevation):

    if elevation < 1000:

        return 'green'

    elif 1000 <= elevation < 3000:

        return 'orange'

    else:

        return 'red'

* Note: You can play around with the elevation delimiters based on the data. I decided that leaving things at “1000” produced too much orange and very little green, so I changed them to “1500” in my code.

**Our Code So Far:**

import pandas

import folium

data = pandas.read\_csv("Volcanoes.csv")

lat = list(data["LAT"])

lon = list(data["LON"])

elev = list(data["ELEV"])

name = list(data["NAME"])

html = """

Volcano name:<br>

<a href="https://www.google.com/search?q=%%22%s%%22" target="\_blank">%s</a><br>

Height: %s m

"""

def color\_producer(elevation):

    if elevation < 1500:

        return 'green'

    elif 1500 <= elevation < 3000:

        return 'orange'

    else:

        return 'red'

map = folium.Map(location=[47.60, -122.33], zoom\_start=6, tiles="Stamen Terrain")

fg = folium.FeatureGroup(name="My Map")

for lt, ln, el, name in zip(lat, lon, elev, name):

    iframe = folium.IFrame(html=html % (name, name, el), width=200, height=100)

fg.add\_child(folium.Marker(location=[lt, ln], popup=folium.Popup(iframe), icon=folium.Icon(color=color\_producer(el))))

map.add\_child(fg)

map.save("Map1.html")

## Tip on Adding and Stylizing Markers:

You can use dir(folium)  to look for possible methods of creating circle markers. Among the methods you will see Marker, which we previously used.

Once you locate the method, consider using the help  function to look for possible arguments you can pass to the method for styling the circle markers.

## Solution: Add and Stylize Markers:

* Changed the marker style to a **CircleMarker** with a radius of 6 pixels.

for lt, ln, el, name in zip(lat, lon, elev, name):

    iframe = folium.IFrame(html=html % (name, name, el), width=200, height=100)

fg.add\_child(folium.**CircleMarker**(location=[lt, ln], radius=6, popup=folium.Popup(iframe), fill\_color=color\_producer(el), color='grey', fill\_opacity=0.7))

## Exploring the Population JSON Data:

* So far we have **two layers** in our map:
  + We have the base layer with geographical information (the one we set to “Stamen Terrain”). This is our “**line layer**”.
  + We also have our location markers for our volcanoes, our “**point layer**”.
* We want to add a **third layer** to our map:
  + **Polygon layer**, to wrap areas in polygons.
  + We’re going to set a polygon layer to show population by country.
* To do this, we use the **folium.GeoJson** object:

fg.add\_child(folium.GeoJson())

* For the next part, he suggested we open the “**world.json**” file in a light-weight text editor such as Notepad to take a look at it.
  + Opening it in Atom (in his case) or VSCode (in my case) could cause problems if your computer is slow.
* There’s a LOT of data in this JSON file.
* **GeoJson** is a special case of JSON. It always starts with curly-braces, and it’s a string that’s like a Python dictionary, with “keys” and “values”.

## Practicing JSON Data by Adding a Population Map Layer from the Data:

* The **folium.GeoJson()** method takes an argument “data”, which we set to a classic Python function **open()**. So we add:

fg.add\_child(folium.GeoJson(data=(open("world.json", 'r'))))

* Since “world.json” is in the same location as our .py file, we don’t have to input the full file location.
  + Now, running the .py file with just the above line created an error, saying we need to add encoding, **encoding=’utf-8-sig’** after the ‘r’.
  + Also, he added a note that the recent version of Folium needs a string instead of a file as data input. Therefore, we may need to add a **read() method**:

fg.add\_child(folium.GeoJson(data=(open("world.json", 'r', encoding='utf-8-sig').read())))

* Now when we run the .py file and open/refresh our map, country borders are now outlined by blue polygon lines.
  + He noted that the GeoJson file we loaded could’ve had lines or points, not just polygon data.

## Stylizing the Population Layer:

* We have population data in our “world.json” file.
* We’re going to change the color of our polygons based on population.
* We’re going to add a **style\_function=** to our **folium.GeoJson(data=open(), )** section. This argument, “style\_function” takes a **lambda function** as its argument.
  + Ex.: **l = lambda x: x\*\*2**
  + **l(5)** returns **25**.

fg.add\_child(folium.GeoJson(data=open("world.json", 'r', encoding='utf-8-sig').read(),

**style\_function=lambda x: {'fillColor':'yellow'}**)) **🡨 🡨 🡨**

* Now when we run the .py and reload our map, the polygons are all filled with “yellow”.
* We can now play around with this by adding conditionals inside the dictionary in the lambda function:
  + **{‘fillColor’:’green’ if x[‘properties’][‘POP2005’] < 10000000 else ‘orange’ }** for example.

fg.add\_child(folium.GeoJson(data=open("world.json", 'r', encoding='utf-8-sig').read(),

style\_function=lambda x: {'fillColor':'green' if x['properties']['POP2005'] < 10000000

else 'yellow' if 10000000 <= x['properties']['POP2005'] < 20000000

else 'orange' if 20000000 <= x['properties']['POP2005'] < 30000000

else 'red'}))

## Adding a Layer Control Panel:

* Now we want to add a feature that allows us to turn the custom layers on and off. Specifically the marker layer and the polygon layer.
* To do this, we use the **LayerControl** class of Folium:
  + **map.add\_child(folium.LayerControl())**
  + Running the .py with just this makes a box appear in the upper-right of your map.
  + The box contains “**stamenterrain**”, which you can’t turn off, and “**My Map**” which can be toggled with a check-box.
  + Both the polygon layer and the point layer are toggled on and off at the same time, as both are held within “My Map” currently.
  + Therefore, you want to split **fg = folium.FeatureGroup(name=“My Map”)** into two separate parts. The polygon layer and the point layer are both added to **fg** separately already.

fgv = folium.FeatureGroup(name="Volcanoes")

for lt, ln, el, name in zip(lat, lon, elev, name):

    iframe = folium.IFrame(html=html % (name, name, el), width=200, height=100)

    fgv.add\_child(folium.CircleMarker(location=[lt, ln], radius=6,

    popup=folium.Popup(iframe),

    fill\_color=color\_producer(el), color='grey', fill\_opacity=0.7))

fgp = folium.FeatureGroup(name="Population")

fgp.add\_child(folium.GeoJson(data=open("world.json", 'r', encoding='utf-8-sig').read(),

style\_function=lambda x: {'fillColor':'green' if x['properties']['POP2005'] < 10000000

else 'yellow' if 10000000 <= x['properties']['POP2005'] < 20000000

else 'orange' if 20000000 <= x['properties']['POP2005'] < 30000000

else 'red'}))

map.add\_child(fgv)

map.add\_child(fgp)

* There are other ways to accomplish this besides splitting the feature group in two, such as adding the GeoJson to the map directly, but for the purposes of this program where we’re adding multiple children to “Volcanoes” at a time, we’d have a separate layer for every volcano.
  + But for “Population”, we could’ve added GeoJson directly.

## App 1: Full Code:

import pandas

import folium

# This section extracts data from 'Volcanoes.csv' to iterate into map

data = pandas.read\_csv("Volcanoes.csv")

lat = list(data["LAT"])

lon = list(data["LON"])

elev = list(data["ELEV"])

name = list(data["NAME"])

# This section formats popup information and adds Google link

html = """

Volcano name:<br>

<a href="https://www.google.com/search?q=%%22%s%%22" target="\_blank">%s</a><br>

Height: %s m

"""

# Function to change the Map Marker color based on elevation

def color\_producer(elevation):

    if elevation < 1500:

        return 'green'

    elif 1500 <= elevation < 3000:

        return 'orange'

    else:

        return 'red'

# This section creates our initial map object

map = folium.Map(location=[47.60, -122.33], zoom\_start=6, tiles="Stamen Terrain")

# This line creates a feature group for volcanoes

fgv = folium.FeatureGroup(name="Volcanoes")

# This section adds Marker Point coordinates, other data to map

for lt, ln, el, name in zip(lat, lon, elev, name):

    iframe = folium.IFrame(html=html % (name, name, el), width=200, height=100)

    fgv.add\_child(folium.CircleMarker(location=[lt, ln], radius=6,

    popup=folium.Popup(iframe),

    fill\_color=color\_producer(el), color='grey', fill\_opacity=0.7))

# This line creates a feature group for population

fgp = folium.FeatureGroup(name="Population")

# This section adds polygon layer for population map

fgp.add\_child(folium.GeoJson(data=open("world.json", 'r', encoding='utf-8-sig').read(),

style\_function=lambda x: {'fillColor':'green' if x['properties']['POP2005'] < 10000000

else 'yellow' if 10000000 <= x['properties']['POP2005'] < 20000000

else 'orange' if 20000000 <= x['properties']['POP2005'] < 30000000

else 'red'}))

# This line adds the feature groups for volcanoes and for population

map.add\_child(fgv)

map.add\_child(fgp)

# This section adds layer-control functionality to map

map.add\_child(folium.LayerControl())

map.save("Map1.html")

# Section 16: Fixing Programming Errors:

## Syntax Errors:

* He claims this section/lecture is the most important one of the course.
* In Python, we have two basic types of errors:
  + **Syntax Errors**: “Parsing Errors”
  + **Exceptions**: “Runtime Errors”
* The **first line** of an error points you to the **name of the file** that has the error, then a comma. After the comma, it points you to the **line** where the error is.
* Under that, Python **prints out the line** in the terminal, **showing the error**. It even includes an arrow pointing roughly to where the error is in the line.
* Under that, you have the **error type** (such as “**SyntaxError**”). There’s a description after a colon, sometimes a very useful and specific one.
* SyntaxErrors are also known as “**parsing errors**” because they’re caught while your Python code is being parsed.

## Runtime Errors:

* All errors that aren’t Syntax Errors are **Exceptions**, such as “**TypeError**”, “**NameError**”, “**ZeroDivisionError**”, etc.
* Note that, while you want to look at the line where the error is flagged, you also want to look at the line above it. For example, (“SyntaxError”) if you forget to close a parenthesis, the error may actually be happening in the previous line because it expected a closed parenthesis.
* Python first checks for SyntaxErrors, and then looks for Exceptions.
* A **TypeError** exception can give you more useful information, such as:
  + “**TypeError: unsupported operand type(s) for +: ‘int’ and ‘str’**”.
* These are errors that occur during runtime, hence they are “**runtime errors**”.
* There are many other of these error types besides TypeError.
* You may also get a **NameError**, such as if you run **print(c)** without assigning a value to the variable **c**.
  + “**NameError: name ‘c’ is not defined**”.
* There is also the **ZeroDivisionError** for when you try and divide by 0.

## How to Fix Difficult Errors:

* If you’re unsure what an error message means (such as “**ZeroDivisionError: division by zero**”), you can copy the message and then Google it and looking up solutions on **Stack Overflow**.
  + If you can’t find an answer, you can ask your own question.
  + Note: The *structure* of your question is very important for getting a good answer.

## How to Ask a Good Programming Question:

* Include **error type**.
* Include the **expected output**.
* Include **details** about error in question.
  + Error type.
  + Entire error **traceback**.
* Include copy of the **code** you’re working with.
  + Highlight the code and the error.
  + It’s better to include the code as text rather than a screenshot so that another programmer can just copy/paste.

## Making the Code Handle Errors by Itself:

* We’re using the “divide by zero” problem again:

def divide(a, b):

    return a / b

print(divide(1, 0))

* If a user/programmer passes **print(divide(1,0))**, we’ll get a **ZeroDivisionError**.
* If you have other functions or other lines of code that you want to execute as well and the user passed **0**, all the other lines wouldn’t be executed, and the program would crash.
* Instead, we use **try / except**:

def divide(a, b):

    try:

        return a / b

    except ZeroDivisionError:

        return "You cannot divide by zero."

print(divide(1, 0))

* We can “except” other runtime error types as well, such as **NameError** or **TypeError**.
* Explicitly naming the specific error helps you find and fix bugs.

# Section 17: Image and Video Processing with Python:

## Section Introduction:

* We’ll be working with **Computer Vision** in this section.
* This will work on both images and videos, as videos are more-or-less just *stacks of images*.
* We’ll be using **OpenCV** (“Open-source Computer Vision”), **cv2**.

## Installing the Library:

*Note: Resource for this page is a link to “Cv2 Documentation”*.

* I previously installed OpenCV in **Section 14** to work with numpy, pandas, Jupyter Notebook, and that small grayscale image. The instructions for this page look to be identical.

## Loading, Displaying, Resizing, and Creating Images:

* We want to **import cv2** into our program and then set a variable:
  + **img=cv2.imread(“galaxy.jpg”, 0)**
  + **0** for grayscale.
  + **1** for color.
  + **-1** for playing with transparency.
* Once **img** has been created:
  + Running **print(type(img))** returns **<class ‘numpy.ndarray’>**
  + Running **print(img)** prints a list of lists of values for pixels.
    - In the case of grayscale, this is a 2-dimensional array.
  + Running **print(img.shape)** prints “**(1485, 990)**”, which is the pixel width and length.
  + Running **print(img.ndim)** prints how many dimensions the array has.

import cv2

img=cv2.imread("galaxy.jpg", 0)

print(type(img))

print(img)

print(img.shape)

print(img.ndim)

* Switching our **0** argument to **1** for a color image and then running all those same print statements:
  + Returns the same class, **numpy.ndarray**.
  + A **3-dimensional array** or series of matrices.
  + “**(1485, 990, 3)**”
  + **3** (-dimensions)
* We’re going to stick with the grayscale image for now.
* Running:
  + **cv2.imshow(“Galaxy”, img)** displays the image (named “Galaxy”) on the screen.
  + **cv2.waitKey(0)** with **0** will cause the window to close as soon as the user presses any key.
    - **cv2.waitKey(2000)** would cause the image to be up on the screen for 2000 milliseconds (2 seconds).
  + **cv2.destroyAllWindows()**

cv2.imshow("Galaxy", img)

cv2.waitKey(0)

cv2.destroyAllWindows()

* Note that the size in which the image comes up on screen is at its **pixel size**.
* You can resize the image by adding a line before the **imshow()** method:
  + **resized\_image=cv2.resize(img, (1000, 500))**
  + This shows the image in a resized (somewhat stretched) state.

import cv2

img=cv2.imread("galaxy.jpg", 0)

**resized\_image=cv2.resize(img, (1000,500)) 🡨 🡨 🡨**

cv2.imshow("Galaxy", resized\_image)

cv2.waitKey(0)

cv2.destroyAllWindows()

* What’s happening with this **.resize()** method is that Python is actually *resizing the numpy array* and creating a *new array* with dimensions (1000, 500). It will **interpolate** those values to go from one to the other.
* If you want to keep the **aspect ratio** of the image:

import cv2

img=cv2.imread("galaxy.jpg", 0)

resized\_image=cv2.resize(img, **(int(img.shape[1]/2), int(img.shape[0]/2)**)) **🡨 🡨 🡨**

cv2.imshow("Galaxy", resized\_image)

cv2.waitKey(0)

cv2.destroyAllWindows()

* Now if we want to save/write the resized image:

import cv2

img=cv2.imread("galaxy.jpg", 0)

resized\_image=cv2.resize(img, (int(img.shape[1]/2), int(img.shape[0]/2)))

cv2.imshow("Galaxy", resized\_image)

**cv2.imwrite("Galaxy\_resized.jpg", resized\_image)** **🡨 🡨 🡨**

cv2.waitKey(0)

cv2.destroyAllWindows()

* + We use **cv2.imwrite(“Galaxy\_resized.jpg”, resized\_image)**

## Exercise: Batch Image Resizing:

* Turns out this took something called a **glob**, which we hadn’t gone over yet. Skipped to the Solution pages.

## Solution: Batch Image Resizing:

import cv2  
import glob

images=glob.glob("\*.jpg")

for image in images:  
    img=cv2.imread(image,0)  
    re=cv2.resize(img,(100,100))  
    cv2.imshow("Hey",re)  
    cv2.waitKey(500)  
    cv2.destroyAllWindows()  
    cv2.imwrite("resized\_"+image,re)

I first created a list containing the image file paths and then iterated through the aforementioned list.

The loop: reads each image, resizes, displays the image, waits for the user input key, closes the window once the key is pressed, and writes the resized image. The name of the resized image will be "resized" plus the existing file name of the original image.

import cv2

import glob

# Saves a glob of all images as 'images'

images = glob.glob("./resizer\_images/\*.jpg")

for image in images:

    img=cv2.imread(image, 0)

    resized\_image=cv2.resize(img, (100, 100))

    cv2.imshow("Resized Image", resized\_image)

    cv2.waitKey(0)

    cv2.destroyAllWindows()

    cv2.imwrite("./resizer\_images/resized\_"+image, resized\_image)

* Even after following him, I can’t get things to write in the relative filepath…

## Solution Further Explained:

*Note: Resources for this lecture include links to “Cv2 Documentation” and “Glob Documentation”*.

* Didn’t solve my issues with getting a relative path to work (writing issues).
* Q&A didn’t give me exactly what I wanted either.

## Detecting Faces in Images:

*Note: Resources for this lecture include “Files.zip” and link to “Cv2 Documentation”*.

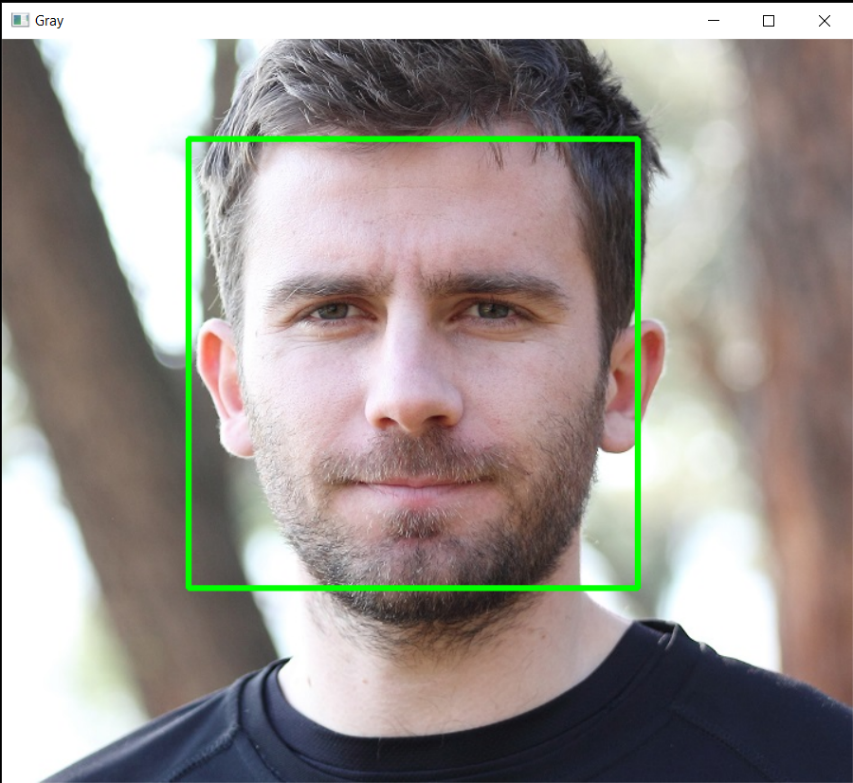
* We’ll be using the **frontal face haarcascade** that was included in the .zip file.
  + More **haarcascades** for other types of images can be found on Github.
* First we **import cv2**,
* Then we set:
  + **face\_cascade=cv2.CascadeClassifier(“haarcascade\_frontalface\_default.xml”)**
  + **img=cv2.imread(“photo.jpg”)**
  + Note: We’re not passing a second argument here, meaning we’ll be reading in a color picture of a face. We want to do facial recognition in grayscale, but we want to return the color version at the end:
  + **gray\_img=cv2.cvtColor(img,cv2.COLOR\_BGR2GRAY)**
* Graphical user interface, application

  Description automatically generatedWe’re going to use a cv2 function that will give the pixel coordinates of the face it finds:

faces=face\_cascade.detectMultiScale(gray\_img,

scaleFactor=1.05,

minNeighbors=5)

* After running this, we decided to **print(type(faces))** and **print(faces)** to see what the result was.
  + **faces** is **<class ‘numpy.ndarray’>**
  + Prints out as **[[155 83 382 382]]** for the coordinates of the above picture.
* Now we’re going to go ahead and draw that rectangle on the image.

**Code:**

import cv2

face\_cascade=cv2.CascadeClassifier("haarcascade\_frontalface\_default.xml")

img=cv2.imread("news.jpg")

gray\_img=cv2.cvtColor(img, cv2.COLOR\_BGR2GRAY)

# Creates 'faces' numpy array

faces=face\_cascade.detectMultiScale(gray\_img,

scaleFactor=1.05,

minNeighbors=5)

for x, y, w, h in faces:

    img=cv2.rectangle(img, (x, y), (x + w, y + h), (0, 255, 0), 3)

print(type(faces))

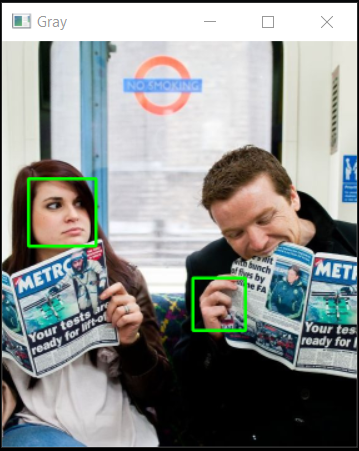
print(faces)

resized=cv2.resize(img, (int(img.shape[1]/2), int(img.shape[0]/2)))

cv2.imshow("Gray", resized)

cv2.waitKey(0)

cv2.destroyAllWindows()

* Next up, we want to try our program on a more challenging picture, **“news.jpg”**.
* Just running that picture through my existing program gives this:
  + The man’s hand is flagged as a face.
  + Faces on the newspapers aren’t flagged.
* To fix this, we’re going to play around with some of the values that we input into our **faces=face\_cascade.detectMultiScale()** method.
* Looking at the printout, we have coordinates for the woman’s face and for the hand: **[45 221 107 107]** and **[304 379 85 85]**.
* By changing **scaleFactor=1.05** to **scaleFactor=1.1**, we can keep the program from flagging the man’s hand.
* We might be able to detect the man’s face, but the instructor doesn’t think we’ll be able to do it with just these tools, because they have limitations.

## Capturing Video with Python:

* He claims we’ll either hate this lecture or we’ll love it…
* We’ll be reading frames/images one-by-one.
* We’re going to us **globs** in this lecture.
* We can use this method to read a video either from a **webcam** or from a **video file**.
* We **import cv2**.
* We create a variable **video=cv2.VideoCapture()** which can take as an argument an **integer** (**0**, **1**, **2**, **3** for example, depending on how many cameras you have) or the **filepath** string of a video.
  + You may have more than one camera, such as a built-in camera for your computer, or an external camera. They’ll have an index, such as **0**.
  + Each camera you have will have its own index.
  + Since this laptop only has **1** camera, we’ll be using **index 0** as our argument:

video=cv2.VideoCapture(0)

* After you set your **video** variable, you want to **release** it:
  + **video.release()**
* Running the program at this early point doesn’t appear to do anything, but (and I think this depends on your computer/camera) the camera should turn on for a second. You may see its light turn on (I didn’t).
  + The **video=cv2.VideoCapture(0)** method opens the camera.
  + The **video.release()** method closes the camera a moment later.
* We can give the camera more time to be on before being released by adding **import cv2, time** to the beginning, and then adding **time.sleep(3)** before we release the camera.
  + Still no camera light for me though. I even tried 10 seconds.

video=cv2.VideoCapture(0)

time.sleep(3)

video.release()

* Now, we don’t actually *see* a camera image on our screen yet because we haven’t added a line telling the program to show one yet. To do this we add:
  + **check, frame = video.read()**, where **check** is a Boolean and **frame** is a numpy array.
  + We ran **print(check** and got True. This tells us that the video is running.
  + We ran **print(frame)** and got a numpy array of 3 x 3 matrices (3-dimensional array, color). This image is the first image that the video captures.
* We’re going to **recursively** run through all the images that the camera captures.

import cv2, time

video=cv2.VideoCapture(0)

check, frame = video.read()

print(check)

print(frame)

time.sleep(3)

video.release()

* Next we add what we need to show the image(s):
  + **cv2=imshow(“Capturing”, frame)**; note: this shows only the first image that is captured.
* We also want to add a **cv2.waitKey(0)** method so pressing any key closes the window, and we want to end with a **cv2.destroyAllWindows()**.
* We also might want to create a converted grayscale version:
  + **gray=cv2.cvtColor(frame, cv2.COLOR\_BGR2GRAY)**
* Now, how about we show an actual **video** instead of just a still image? To do this, we need to use a **while-loop**:

check, frame = video.read()

print(check)

print(frame)

gray=cv2.cvtColor(frame, cv2.COLOR\_BGR2GRAY)

time.sleep(3)

cv2.imshow("Capturing", gray)

cv2.waitKey(0)

* **^^^ The above lines need to be put inside the while loop ^^^**
* Now, using **while True** will cause a script to go on forever unless you force a stop.
* However, in this case, the **cv2.waitKey(0)** gives us a way out. However, using that will still only produce a single (first) image.
* Changing to **cv2.waitKey(2000)** updates the image window ever 2000 milliseconds (or 2 seconds), but then we’re in an infinite while-loop until we force a stop.
* The way around this is to force the while loop to check if a specific key has been hit at the end of every loop, and then **break** if it has:

    if key==ord('q'):

        break

* We can also change the **waitKey** to **1000** or another value, so it refreshes more often.
  + **Note:** You have to click on the image window before pressing ‘Q’ to get the quit function to work.
  + Setting **waitKey(1)** gives really good resolution.
* If you want to know how many frames are being generated, there’s another trick we can use.
* We can set a **frame\_count = 1** and then add 1 for every loop, then print it out at the end. We got about 51 frames within 3 seconds.

**Finished Code:**

import cv2, time

# Captures video from webcam

video=cv2.VideoCapture(0)

frame\_count = 1

#

while True:

    frame\_count += 1

    # A Boolean and a numpy array

    check, frame = video.read()

    print(check)

    print(frame)

    # Creates grayscale version, opens image in window

    gray=cv2.cvtColor(frame, cv2.COLOR\_BGR2GRAY)

    #time.sleep(3)

    cv2.imshow("Capturing", gray)

    key=cv2.waitKey(1)

    # Pressing the 'q' key will exit the loop

    if key==ord('q'):

        break

print(frame\_count)

video.release()

cv2.destroyAllWindows()

# Section 18: App 2: Controlling the Webcam and Detecting Objects:

## Demo of the Webcam Motion Detector App:

* The demonstration showed a video window that appeared to use things we learned in last section’s last two lectures: “Detecting Faces in Images” and “Capturing Video with Python”.
* The program is going to record video from the webcam and **detect motion**.
* It’s also going to record the time that motion was detected and **apply a timestamp**, both to when the object entered the video frame and when the object left the video frame.
* There appeared to be three different frames used to calculate/represent this data:
  + **Color Frame**
  + **Threshold Frame**
  + **Delta Frame**
* Once you press ‘Q’ for ‘quit’ at the end, it loads an interactive “**Motion Graph**” to give you a visual idea of when motion was detected. This graph appears to have been constructed with **Bokeh**.
* He notes that this sort of program can be loaded into a **Raspberry Pi**.

## Detecting Moving Objects from the Webcam:

* We start with a **~~motion-detector.py~~** program that’s identical to our finished code from the “Capturing Video with Python” program in the last Section.
  + **Note:** Program was renamed to **motion\_detector.py** in later sections because of an issue arising from the “-“ symbol.
* We want to add motion detection to this, but how to we plan the program out?
* To show his concept for it, he had a folder with **four pictures** in it:
  + **Background.png (Initial Frame)** – This is the baseline image the camera is “used” to seeing. We’re going to use the first frame the camera takes as a *static background*. Will be converted to grayscale for the comparison.
    - Personally I would consider this an *assumption*. What if you had a situation where the first frame had someone in it? Better to have the program compare the mean value of the frames over time.
  + **Color\_Frame.png (Color Frame)** – This image showed him in the frame. The program should notice the difference from the baseline. Will be converted to grayscale for the comparison.
  + **Difference.png (Delta Frame)** – This is the difference between the grayscales of the first two images, calculated by numpy. The high-difference areas (the whiter areas) of the image are where the most motion is going on.
  + **Threshold.png (Threshold Frame)** – Tell the program “if you see a difference in the Delta Frame of more than 100 intensity, convert that to completely white pixels, convert all others to completely black.
* We’re going to find the contours around the completely white areas of the Threshold Frame, then write a **for-loop** that will iterate through all the contours of the current frame. Inside that loop, we’ll check if the areas inside those contours is more than 500 pixels, then consider it a moving object.
* Next we’ll draw a rectangle around the contours that were greater than 500 pixels and then show the rectangle over the original (live) color image.
* We’ll also record the times that the moving object entered and exited the frame.
* Now onto our code. We removed a few lines from last time that we won’t need for this. Then, we want to store the first frame in a variable to compare later frames to, so up at the top we add:

import cv2, time

**first\_frame=None 🡨 🡨 🡨**

* + **None** is a special Python value that we can use to create a variable without assigning anything to it.

    if first\_frame is None:

        first\_frame=gray

**continue 🡨 🡨 🡨**

* Next we need to write a conditional inside our while-loop, with a **continue** in it.
* This assigns the very first frame to the variable **first\_frame**. This only happens once.
* Using **continue** sends the program back to the beginning of the while-loop.
* With this in place, we can now apply the **Delta Frame**. Now, we want to go up to our **gray** variable image and apply a Gaussian blur with **gray=cv2.GaussianBlur(gray,(21, 21), 0)** to reduce noise and make things easier to calculate usefully. The tuple (21, 21) is the width and height of the Gaussian kernel, and the 0 is the standard deviation.
* Now we can calculate our **delta\_frame**:

    delta\_frame=cv2.absdiff(first\_frame, gray)

* We also added an **imshow** to show off the delta\_frame.
* Once we have this, we need to classify the delta\_frame values so we can assign a threshold. Let’s say if the difference of compared values is more than 30, then we classify that as a white pixel (which corresponds to a value of 255). We say “There’s definitely motion going on there”.
* If the difference of compared values is less than 30, then we classify it as a black pixel (which corresponds to a value of 0). “There isn’t much motion going on here”.
* We do the above using the **.threshold()** method of the **cv2 library:**

    thresh\_frame=cv2.threshold(delta\_frame, 30, 255, cv2.THRESH\_BINARY)

* This takes the **delta\_frame**, the threshold of **30**, the new assigned value of **255** (white), and the “**threshold method**” of **THRESH\_BINARY**. There are quite a few threshold methods to choose from, but we’re going for binary.
* At the end of this, we also added another **imshow** for “Threshold Frame”.
* However, we got an error, because the .threshold() method returns a tuple of two values. This won’t input into imshow, so we need to tack a **[1]** on the end:

    thresh\_frame=cv2.threshold(delta\_frame, 30, 255, cv2.THRESH\_BINARY)**[1]**

* Now we want to “smooth” our threshold frame (get rid of the black holes within our white objects) using the **.dilate()** method.

    thresh\_frame=cv2.threshold(delta\_frame, 30, 255, cv2.THRESH\_BINARY)[1]

    thresh\_frame=cv2.dilate(thresh\_frame, None, iterations=2)

* We pass in **thresh\_frame**, **None** for the array (if you already have a kernel array and want things to be very sophisticated, you can use this here), and **iterations=2** for how many times we want to go through the image to remove those holes.
* Now we want to find the “contours” of our white threshold areas. We have two methods to choose from: “find contours” and “draw contours”.
  + With the “**.findContours()**” method, we find the contours in the image and store them in a tuple.
  + With the “**.drawContours()**” method, it draws the contours in an image.

    (cnts,\_) = cv2.findContours(thresh\_frame.copy(), cv2.RETR\_EXTERNAL, cv2.CHAIN\_APPROX\_SIMPLE)

* This method takes your **image** (it’s a good idea to use a copy() here), an argument **cv2.RETR\_EXTERNAL** for retrieving the external contours, and **cv2.CHAIN\_APPROX\_SIMPLE** as an approximation method that OpenCV will apply for finding the contours.
* So far, we’ve **iterating** through the current frame, **blurring** it, converting it to **grayscale**, finding the **delta frame**, applying the **threshold**, and then **finding all the contours** within the image.
* Next, what we want to do is we want to filter our contours. We want only contours with areas bigger than, say, 1000 pixels.
* For that, we need to iterate over our contours and **continue** over them if they’re less than 1000 pixels:

    for contour in cnts:

        if cv2.contourArea(contour) < 1000:

            continue

        (x, y, w, h) = cv2.boundingRect(contour)

        cv2.rectangle(frame, (x,y), (x+w, y+h), (0, 255, 0), 3)

**Full Code, Starting on Next Page:**

**Full Code:**

import cv2, time

first\_frame=None

video=cv2.VideoCapture(0)

while True:

    check, frame = video.read()

    gray=cv2.cvtColor(frame, cv2.COLOR\_BGR2GRAY)

    gray=cv2.GaussianBlur(gray, (21, 21,), 0)

    if first\_frame is None:

        first\_frame=gray

        continue

    delta\_frame=cv2.absdiff(first\_frame, gray)

    thresh\_frame=cv2.threshold(delta\_frame, 30, 255, cv2.THRESH\_BINARY)[1]

    thresh\_frame=cv2.dilate(thresh\_frame, None, iterations=2)

    (cnts,\_) = cv2.findContours(thresh\_frame.copy(), cv2.RETR\_EXTERNAL, cv2.CHAIN\_APPROX\_SIMPLE)

    for contour in cnts:

        if cv2.contourArea(contour) < 1000:

            continue

        (x, y, w, h) = cv2.boundingRect(contour)

        cv2.rectangle(frame, (x,y), (x+w, y+h), (0, 255, 0), 3)

    cv2.imshow("Capturing", gray)

    cv2.imshow("Delta Frame", delta\_frame)

    cv2.imshow("Threshold Frame", thresh\_frame)

    cv2.imshow("Color Frame", frame)

    key=cv2.waitKey(1)

    print(gray)

    print(delta\_frame)

    if key==ord('q'):

        break

video.release()

cv2.destroyAllWindows

## Storing Object Detection Timestamps in a CSV File:

* Now that we have the basics of our motion-detector.py working, we may want to store data in a .csv file.
* First we want to decide where in our program the state changes from “no motion” to “motion” when an object moves into the frame.
  + Note: When I run my code, the lighting in my house gives a lot of background noise, so my output might say that there’s constantly motion in the frame.
    - Changing the **if cv2.contourArea(contour) < 10000:** and turning off my dining room light helped a bit.
* We also add a variable, **status = 0**, at the beginning of our **while True:** loop and we set it to **status = 1** after the **if cv2.contourArea(contour)** line. So we have **🡪**

    for contour in cnts:

        if cv2.contourArea(contour) < **10000**:  **🡨 🡨 🡨**

            continue

        status = 1 **🡨 🡨 🡨**

        (x, y, w, h) = cv2.boundingRect(contour)

        cv2.rectangle(frame, (x,y), (x+w, y+h), (0, 255, 0), 3)

while True:

    check, frame = video.read()

    status = 0 **🡨 🡨 🡨**

* **🡪** up at the top of the while-loop, and we have **🡪**
* **🡪** down where the contour iteration happens.
  + Unfortunately, background noise does set mine to **print(status) 🡪 1** still…
  + Angling my laptop screen/camera up towards the ceiling fixed the problem. Everything’s running the way it should now, with the proper **status** outputs and everything.
* We can now apply a date-time method with this. To do this, we need to figure out exactly when our **status** changes from **0** to **1**. To track this, we add a new empty list **status\_list = []** up near the very top of the program:

import cv2, time

first\_frame=None

status\_list=[] **🡨 🡨 🡨**

times=[] **🡨 🡨 🡨** (added later when appending datetimes to status changes)

* Now we want to append the status to that list:
* Now we want to append the status to that list:

    for contour in cnts:

        if cv2.contourArea(contour) < 10000:

            continue

        status = 1

        (x, y, w, h) = cv2.boundingRect(contour)

        cv2.rectangle(frame, (x,y), (x+w, y+h), (0, 255, 0), 3)

    status\_list.append(status)

* We also **print(status\_list)** at the end, outside the while-loop. This prints out a list of every time the status became **1** (or back to **0**). We’re going to use this to track our timestamps, which we do with a conditional:

    status\_list.append(status)

    if status\_list[-1] == 1 and status\_list[-2] == 0:

        times.append(datetime.now())

    if status\_list[-1] == 0 and status\_list[-2] == 1:

        times.append(datetime.now())

* This conditional checks the last two items of the **status\_list** to see when it changes from **0** to **1** or from **1** to **0**. However, if we run it as is, we’ll get a range error during the first loops, because our **status\_list** doesn’t yet have enough items to index over. We fix this with:

import cv2, time

from datetime import datetime

first\_frame=None

status\_list=[None, None] **🡨 🡨 🡨**

times=[]

* We now have **datetimes** for every time an object enters or leaves the frame.
* Now, sometimes you may quit the script while an object is still in the frame, so your **times** list won’t have an exit time for that final incident. To fix this, we go to the end and add a conditional inside the **if key==ord(‘q)** conditional:

    if key==ord('q'):

        if status\_list==1:

            times.append(datetime.now())

        break

* That should add the missing timestamp to **times**.
* The next thing we want to do is to take our **times** list and put it in a **pandas** DataFrame, and then into a .csv file.
* The next thing we want to do is to take our **times** list and put it in a **pandas** DataFrame, and then into a .csv file.
* We’ll need a **Start** column for when an object enters the frame and an **End** column for when an object exits the frame (or when the script ends).
* First we need to **import pandas** and set an empty pandas DataFrame:

import cv2, time, pandas **🡨 🡨 🡨**

from datetime import datetime

first\_frame=None

status\_list=[None, None]

times=[]

df=pandas.DataFrame(columns=["Start", "End"]) **🡨 🡨 🡨**

* The next thing we want to do is go to the end—outside the while-loop—and iterate through all of our **times** values and append them to our DataFrame:

print(status\_list)

print(times)

for i in range(0, len(times), 2):

    df=df.append({"Start":times[i], "End": times[i+1]}, ignore\_index=True)

df.to\_csv("Times.csv")

* This will fill in our “**Start**” column with **times[i]** datetime values and our “**End**” column with **times[i+1]** datetime values, stepping through 2 at a time. The **ignore\_index=True** argument I’m unsure about. We then use **df.to\_csv(“Times.csv”)** to export this DataFrame to a .csv.
  + Note: I got a “FutureWarning” from **pandas** saying that the **frame.append** method is deprecated and to use **pandas.concat** instead. I couldn’t find an easy way to convert to this that used my existing code, kept getting errors I don’t want to deal with right now.
* Note: Opening up the .csv in VSCode gives a lot more information off the bat than opening it in Excel. To see more information in Excel, you need to go into “Format” and change to a different format than the default.

**Full Code:**

import cv2, time, pandas

from datetime import datetime

# Creates empty variables for later conditionals

first\_frame=None

status\_list=[None, None]

times=[]

df=pandas.DataFrame(columns=["Start", "End"])

video=cv2.VideoCapture(0)

while True:

    check, frame = video.read()

    status = 0

    # Creates grayscale version and applies Gaussian blur

    gray=cv2.cvtColor(frame, cv2.COLOR\_BGR2GRAY)

    gray=cv2.GaussianBlur(gray, (21, 21,), 0)

    # If first time running, uses first image as the Background Frame

    if first\_frame is None:

        first\_frame=gray

        continue

    # Creates Delta Frame to calculate differences for motion capture

    delta\_frame=cv2.absdiff(first\_frame, gray)

    # Creates Threshold Frame to classify differences for motion capture

    thresh\_frame=cv2.threshold(delta\_frame, 30, 255, cv2.THRESH\_BINARY)[1]

    thresh\_frame=cv2.dilate(thresh\_frame, None, iterations=2)

    # Find threshold contours

    (cnts,\_) = cv2.findContours(thresh\_frame.copy(), cv2.RETR\_EXTERNAL, cv2.CHAIN\_APPROX\_SIMPLE)

    for contour in cnts:

        if cv2.contourArea(contour) < 10000:

            continue

        status = 1

        (x, y, w, h) = cv2.boundingRect(contour)

        cv2.rectangle(frame, (x,y), (x+w, y+h), (0, 255, 0), 3)

    status\_list.append(status)

    # Records date-times for status changes

    if status\_list[-1] == 1 and status\_list[-2] == 0:

        times.append(datetime.now())

    if status\_list[-1] == 0 and status\_list[-2] == 1:

        times.append(datetime.now())

    # Shows all frames

    cv2.imshow("Capturing", gray)

    cv2.imshow("Delta Frame", delta\_frame)

    cv2.imshow("Threshold Frame", thresh\_frame)

    cv2.imshow("Color Frame", frame)

    key=cv2.waitKey(1)

    #print(gray) # numpy array

    #print(delta\_frame) # numpy array

    if key==ord('q'):

        if status\_list==1:

            times.append(datetime.now())

        break

    #print(status) # To check status changes during motion capture

print(status\_list) # To check status change list

print(times) # To check datetime timestamps

for i in range(0, len(times), 2):

    df=df.append({"Start":times[i], "End": times[i+1]}, ignore\_index=True)

df.to\_csv("Times.csv")

video.release()

cv2.destroyAllWindows

* **Note:** Program was renamed to **motion\_detector.py** in later sections because of an issue arising from the “-“ symbol.

# Section 19: Interactive Data Visualization with Python and Bokeh:

## Introduction to Bokeh:

* Good for visualizing data in a browser.
* A more modern alternative to Matplotlib and Seaborn.
* Sounds like we’ll mostly be working with **Jupyter Notebook** for this section.
* This section looks like it’ll be a lot of exercises and static pages rather than lecture videos.
* Looks like we’ll also be working with the **webcam app** again. Probably graphing motion capture based on time.

## Installing Bokeh:

If you haven't installed Bokeh yet, you can easily install it with pip from the terminal:

pip install bokeh

Or you use pip3:

pip3 install bokeh

## Your First Bokeh Plot:

*Note: Resource for this lecture is a link to Bokeh Documentation*.

* He installed Jupyter Notebook to show that process again, then opened a Jupyter session, started a new Python session inside that, and renamed the session “Basic Graph”.
  + Note: He said that we could use another IDE like VSCode instead of Jupyter Notebook if we prefer, but I’m going to follow along with him in Jupyter Notebook.

# Making a basic Bokeh line graph

# Importing Bokeh

from bokeh.plotting import figure

from bokeh.io import output\_file, show

# Prepare some data

x=[1,2,3,4,5] #Note: these lists need to be the same length

y=[6,7,8,9,10]

# Prepare the output file

output\_file("Line.html")

# Create a figure object

f=figure()

# Create line plot

f.line(x,y)

# Write the plot in the figure object

show(f)

* **Basic Graph code:**
* This creates an HTML of the line graph, which opens in the browser (whether using Jupyter Notebook or VSCode/another IDE).
* He then went over some of the toolbar stuff (zoom, pan, etc) and showed some of the features of this *interactive graph*.
* Next up we’re going to do a practice exercise for plotting triangles and circles.
* As a hint, he mentioned that we can run **dir(f)** to find out what properties our *figure* object has.

## Exercise: Plotting Triangles and Circles:

* Note: We just plotted the same three points, but the *glyphs* representing those points were either a **triangle** or a **circle**. Other than that, the code was almost identical between the two. I was expecting something a little more geometrically interesting to happen, like a triangle between all three points and then a (large) circle that passes through all three points.

## Using Bokeh with Pandas:

*Note: Resources for this lecture are “data.csv” and documentation for Pandas and Bokeh*.

* Note: Turns out you can copy/paste entire cells in Jupyter Notebook if you’re in Command Mode. Neat.
* To show how to import data from a CSV file instead of Python lists, he created a CSV file from scratch. Looks like it’s the same data points as when we were working with lists, just in CSV form.
* He created this in the same working directory that our Jupyter Notebook files are in (I downloaded the resources version and pasted it in mine).
* We only had to change around a few things to make this work:

# Making a Bokeh line graph from CSV

# Importing Bokeh and pandas

from bokeh.plotting import figure

from bokeh.io import output\_file, show

import pandas

# Prepare some data

df=pandas.read\_csv("data.csv")

x=df["x"]

y=df["y"]

# Prepare the output file

output\_file("Line\_from\_csv.html")

# Create a figure object

f=figure()

# Create line plot

f.line(x,y)

# Write the plot in the figure object

show(f)

* The next few exercises were pretty similar.

## Exercise: Plotting Education Data:

* This exercise included a link (<https://pythonizing.github.io/data/bachelors.csv>) to a ‘bachelors.csv’ file to use for this. We more-or-less plug in this new CSV into our existing Python code and then change the **x=df[“x”]** (and **y**) to the new column labels “**Year**” and “**Engineering**”.
* There were two ways to do this:
  + The first way was what I did. I downloaded the CSV and placed it in the same working directory, then changed things around:

# Prepare some data

df=pandas.read\_csv("bachelors.csv") **🡨 🡨 🡨**

x=df["Year"] **🡨 🡨 🡨**

y=df["Engineering"] **🡨 🡨 🡨**

# Prepare the output file

output\_file("education.html")

* + The other option—which he used in the **Solution** page—is to paste the entire URL into **df=pandas.read\_csv(“URL”)**, which I could see being a much simpler way to go about this (as long as you have a stable internet connection when running the code):

# Prepare some data

df=pandas.read\_csv("https://pythonizing.github.io/data/bachelors.csv") **🡨 🡨 🡨**

x=df["Year"]

y=df["Engineering"]

# Prepare the output file

output\_file("education.html")

* That’s a pretty cool trick.

## Note on Loading Excel Files:

In the next lecture, you will learn how to load Excel files in Python with *pandas*. For this, you need *pandas* (which you have already installed) and also two other dependencies that *pandas* needs for opening Excel files. You can install them with *pip*:

pip3.9 install openpyxl (needed to load Excel *.xlsx* files)

pip3.9 install xlrd (needed to load Excel old *.xls* files)

## Changing Plot Properties:

You can add a title to the plot, set the figure width and height, change title font, etc. Below is a summary of properties which can be added to change the style of the plot:

1. import pandas
2. from bokeh.plotting import figure, output\_file, show
4. p=figure(plot\_width=500,plot\_height=400, tools='pan', logo=None)
6. p.title.text="Cool Data"
7. p.title.text\_color="Gray"
8. p.title.text\_font="times"
9. p.title.text\_font\_style="bold"
10. p.xaxis.minor\_tick\_line\_color=None
11. p.yaxis.minor\_tick\_line\_color=None
12. p.xaxis.axis\_label="Date"
13. p.yaxis.axis\_label="Intensity"
15. p.line([1,2,3],[4,5,6])
16. output\_file("graph.html")
17. show(p)

## Exercise: Plotting Weather Data:

* Added the options from “Changing Plot Properties” and changed some variables to better align with our **verlegenhuken.xlsx** file that we’re working with.
* Changed **x** and **y** to **df[“Temperature”]** and **df[“Pressure”]** as my axes from the data, divided both by **10** per the exercise hint with “**/=**” (he doesn’t use many of that style of reassignment, I’ve noticed, like “+=” or “\*=” for example).
* **Note:** Kept getting an error at the “**df=pandas.read\_csv**()” part until I looked at the solution and realized I needed to change it to “**df=pandas.read\_excel**()”.
* Even after fixing that, kept getting errors with the version of the .xlsx file in the file path. Searched the Q&A section and heard that something about the data might be corrupted. One suggestion was to open the file in **LibreOffice Calc** and then resave it as an .xlsx from there. Downloaded LibreOffice, tried that, and it finally worked. Had to change the filepath in “**df=pandas.read\_excel()**” to just “**df=pandas.read\_excel("verlegenhuken\_resave.xlsx",sheet\_name=0)**”, so it just reads the file in the same directory now, but at least it worked.

**Code:**

# Plotting weather data

from bokeh.plotting import figure

from bokeh.io import output\_file, show

import pandas

df=pandas.read\_excel("verlegenhuken\_resave.xlsx",sheet\_name=0)

df["Temperature"] /= 10

df["Pressure"] /= 10

# Set plot size settings

p=figure(plot\_width=500, plot\_height=400, tools='pan')

# Set plot settings

p.title.text="Temperature and Air Pressure"

p.title.text\_color="Gray"

p.title.text\_font="times"

p.title.text\_font\_style="bold"

p.xaxis.minor\_tick\_line\_color=None

p.yaxis.minor\_tick\_line\_color=None

p.xaxis.axis\_label="Temperature (°C)"

p.yaxis.axis\_label="Pressure (hPa)"

# Create plot and prepare output file

p.circle(df["Temperature"],df["Pressure"], size=0.5)

output\_file("weather-data.html")

show(p)

## Changing Visual Attributes:

Once you have built a basic plot, you can customize its visual attributes, including changing the title color and font, adding labels for xaxis and yaxis, changing the color of the axis ticks, etc. All these properties are illustrated in the diagram below:

Text

Description automatically generated

And here is the code if you want to play around with it:

1. from bokeh.plotting import figure, output\_file, show
2. p = figure(plot\_width=500, plot\_height=400, tools = 'pan, reset')
3. p.title.text = "Earthquakes"
4. p.title.text\_color = "Orange"
5. p.title.text\_font = "times"
6. p.title.text\_font\_style = "italic"
7. p.yaxis.minor\_tick\_line\_color = "Yellow"
8. p.xaxis.axis\_label = "Times"
9. p.yaxis.axis\_label = "Value"
10. p.circle([1,2,3,4,5], [5,6,5,5,3], size = [i\*2 for i in [8,12,14,15,20]], color="red", alpha=0.5)
11. output\_file("Scatter\_plotting.html")
12. show(p)

For a complete list of visual attributes, see the [Styling Visual Attributes](https://bokeh.pydata.org/en/latest/docs/user_guide/styling.html) documentation page of Bokeh.

## Creating a Time-Series Plot:

*Note: Resources for this lecture are “adbe.csv”, “Google+Link.txt”, and the documentation links*.

* We’re going to use financial data found at a Google link (included in that .txt file). We’re also going to be passing the full link to the **adbe.csv** file instead of just the file name (hopefully it works this time, but at least I know a fix now if it doesn’t).
* He opened the **CSV** file to show 7 columns: “**Date**”, “**Open**”, “**High**”, “**Low**”, “**Close**”, “**Volume**”, “**Adj Close**”. We’re going to be using “**Date**” as our x-axis and one of the others as our y-axis.
  + Note: That was his file, labeled “Table.csv”, but the downloadable version **adbe.csv** has one less column, losing the “Adj Close” column. However, the CSV is *from* the Google link.
* Note: Couldn’t get link method to work, had to use the downloadable **adbe.csv** (at least I didn’t have to re-save it).
* Note: Couldn’t get “**p=figure(width=500, height=250, x\_axis\_type="datetime", responsive=True)**” to work; it said something like “could not find ‘responsive’ keyword”. Took out the “**responsive**” keyword argument and it worked after that.
  + I followed some threads in the Q&A, and I guess the people at Bokeh changed the keyword around. Should now be “**sizing\_mode=”scale\_both”**”.

**Code:**

from bokeh.plotting import figure, output\_file, show

import pandas

# Read data, parse on "Date"

df=pandas.read\_csv("adbe.csv",parse\_dates=["Date"])

# Create figure object with x-axis set as a 'datetime', scaling set

p=figure(width=500, height=250, x\_axis\_type="datetime",sizing\_mode="scale\_both")

p.line(df["Date"],df**["Close"],** color="Orange",alpha=0.5) **🡨 🡨 🡨**

output\_file("Timeseries.html")

show(p)

* Note: We can graph against different columns by changing the “**Close**” above to any of the others.

## More Visualization Examples with Bokeh:

* He started by showing how to get multiple glyphs in one plot. It was pretty much just copy/pasting a “**p.line()**” method to create a “**p.circle()**” method and then changing some attributes around:

p.line([1,2,3,4,5],[5,6,5,5,3],

size=[i\*2 for i in [8,12,14,15,20]],color="red",alpha=0.5)

p.circle([i\*2 for i in [1,2,3,4,5]],[5,6,5,5,3],size=8,color="olive",alpha=0.5)

* This created circle points that were at points 2x further along the x-axis compared to the line plot.
* For plotting different kinds of graphs, he pointed us to a section of the Bokeh documentation specifically about plotting: <https://docs.bokeh.org/en/latest/docs/user_guide/plotting.html>. There’s a lot of useful stuff on there (the **hexbin()** in particular looks really interesting and pretty), and I got caught up reading through it for a while.
  + There’s a lot of example code in the documentation that I could copy/paste and play around with in the future. That might be a good way to actually get me interested in reading documentation. Hard enough to motivate myself with the ADHD, but here’s a potential way around that.
* He decided to focus on the *quadrate* or **quad()** plot, where the top, bottom, left, and right values to plot rectangles with their points. Sounds like we’re going to use these plots to visualize the times from our motion detector video program.

## Plotting Time Intervals from the Data Generated by the Webcam App:

* He started by showing the end result we want: a quadrate graph showing times that objects entered and exited the frame. We can also hover over the quads to show a popup with more information about them.
* Currently, **~~motion-detector.py~~** (see note below) outputs the datetimes into a **CSV file**. This will make it very easy to work with in Bokeh, based on all the practice examples we went through.
* Say we have 100 items in our **status\_list**; this means 100 frames in this video.
* To start off though, he suggested making a minor change to our program to avoid some memory problems. He went to the section that checks the last two items of the status\_list and pointed out that we don’t need to keep *all* of them. We only need to keep the times *where the state changes*. So, we add 🡪

    status\_list = status\_list[-2:]

* 🡪 before the conditionals checking for changes.
* Now we think about where we want to put our code for Bokeh. Now, bokeh takes a DataFrame as an input, and as it turns out we’re already creating a DataFrame towards the end of the program.
* At this point, he decided to create a new program, “**plotting.py**” that will actually drive the code to plot the data.
  + **Note:** I found out you can’t have a “-“ in the name if you want to import from one .py program to another. You have to use “\_”, so I renamed that program to **motion\_detector.py**:

from motion\_detector import df

* From there, we make our plotting program look an awful lot like the previous **bokeh** plotting programs we’ve done:

from motion\_detector import df

from bokeh.plotting import figure, show, output\_file

p=figure(x\_axis\_type='datetime', height=100, width=500, sizing\_mode="scale\_both", title="Motion Graph")

q=p.quad(left=df["Start"], right=df["End"], bottom=0, top=1, color="green")

output\_file("Graph.html")

show(p)

* Note: I still get that FutureWarning error from the **cv2** program.
* Once he showed us his plot, he pointed out that we don’t really need numbers or graduations on the y-axis for our purposes. He also pointed out that the x-axis was **measured in seconds**, which in this case means that’s how many seconds have elapsed since the last minute-count. We don’t really see the big picture from just 10 seconds of video.
* To remove the ticker on the y-axis and the y-axis part of the grid, we modify the **figure** **object** by adding:

p.yaxis.minor\_tick\_line\_color=None

p.yaxis[0].ticker.desired\_num\_ticks=1

* So our full code so far is:

from motion\_detector import df

from bokeh.plotting import figure, show, output\_file

p=figure(x\_axis\_type='datetime', height=100, width=500, sizing\_mode="scale\_both", title="Motion Graph")

p.yaxis.minor\_tick\_line\_color=None

p.yaxis[0].ticker.desired\_num\_ticks=1

q=p.quad(left=df["Start"], right=df["End"], bottom=0, top=1, color="green")

output\_file("Graph.html")

show(p)

* We also want to add the popup labels with more information, but we’ll add those **hover** capabilities in the next lecture.

## Implementing a Hover Feature:

* From **bokeh.models** we’re going to import **HoverTool**. This is a built-in tool that will allow us to implement our hover feature on our graph:

from motion\_detector import df

from bokeh.plotting import figure, show, output\_file

from bokeh.models import HoverTool **🡨 🡨 🡨**

* After we’ve created our **figure** object, we’re going to add a **hover** object. This **hover** object takes an argument **tooltips** which takes a *list* of *tuples* which will contain the names we want (in this case, “Start: ” and “End: ”):

p=figure(x\_axis\_type='datetime', height=100, width=500,

sizing\_mode="scale\_both", title="Motion Graph")

p.yaxis.minor\_tick\_line\_color=None

p.yaxis[0].ticker.desired\_num\_ticks=1

hover=HoverTool(tooltips=[("Start","@Start"), ("End","@End")]) **🡨 🡨 🡨**

p.add\_tools(hover)

* Now when the graph shows up, there are some hover tooltips over the green graph bars that say “Start: ???” and “End: ???” Now we just need to get the actual values in there. We do this by importing **ColumnDataSource** after HoverTool. This is used to provide data to a bokeh plot. For some DataFrames, objects, and functions, you need to convert them into a **ColumnDataSource** object:

from motion\_detector import df

from bokeh.plotting import figure, show, output\_file

from bokeh.models import HoverTool, ColumnDataSource **🡨 🡨 🡨**

cds=ColumnDataSource(df) **🡨 🡨 🡨**

* We then need to modify our **.quad** object down below:

q=p.quad(left="Start", right="End", bottom=0, top=1, color="green",

**source=cds**) **🡨 🡨 🡨**

* Notice we don’t need the **df[]** callouts in our .quad arguments anymore, just “Start” and “End”.
* Now the hover tooltips return some data, but it’s not properly formatted as *datetimes*, so we need to format that.

df["Start\_string"]=df["Start"].dt.strftime("%Y-%m-%d %H:%M:%S")

df["End\_string"]=df["End"].dt.strftime("%Y-%m-%d %H:%M:%S")

* We also need to change some inputs in our **hover** object to point to these formatted datetimes:

hover=HoverTool(tooltips=[("Start: ","@Start\_string"),

("End: ","@End\_string")])

* Now our finished code looks like this:

from motion\_detector import df

from bokeh.plotting import figure, show, output\_file

from bokeh.models import HoverTool, ColumnDataSource

# Changes df times into formatted datetimes

df["Start\_string"]=df["Start"].dt.strftime("%Y-%m-%d %H:%M:%S")

df["End\_string"]=df["End"].dt.strftime("%Y-%m-%d %H:%M:%S")

# Passes DataFrame data to ColumnDataSource object

cds=ColumnDataSource(df)

# Creates a Figure "p" as our "Motion Graph"

p=figure(x\_axis\_type='datetime', height=100, width=500, sizing\_mode="scale\_both", title="Motion Graph")

p.yaxis.minor\_tick\_line\_color=None

p.yaxis[0].ticker.desired\_num\_ticks=1

# Creates a tooltip hover function

hover=HoverTool(tooltips=[("Start: ","@Start\_string"), ("End: ","@End\_string")])

p.add\_tools(hover)

# Formats our graph

q=p.quad(left="Start", right="End", bottom=0, top=1, color="green", source=cds)

output\_file("Graph.html")

show(p)

# Section 20: App 3 (Part 1): Data Analysis and Visualization with Pandas and Matplotlib:

## Preview of the End Results:

*Note: Resource for this section is “reviews.csv”*.

* He says this is one of the most important projects of the course.
* Python has overtaken languages such as **r** that were geared towards data analysis and visualization. The vast amounts of libraries in Python make this easy and fluid.
* He showed off a series of interactive charts for “**Analysis of Course Reviews**”:
  + **Average Rating by Week**: A plotted curve.
  + **Number of Ratings by Course**: A pie chart.
  + **Average Rating by Month by Course**: Reminds me of the population statistics chart at the end of an AoE2 playthrough (a *streamgraph*).

## Installing the Required Libraries:

To build this app we need to install a few Python libraries. Please run the following commands in your terminal to install the correct library versions even if you have the libraries installed already:

Installing **justpy** (library for building web apps and data visualization):

pip3.9 install justpy==0.1.5

Installing **pandas** (library for data analysis):

pip3.9 install pandas==1.2.2

Installing **pytz** (library for datetime calculations between timezones)

pip3.9 install pytz==2021.1

Installing **matplotlib** (library for quick data visualization)

pip3.9 install matplotlib==3.3.4

Installing **jupyter** (library that enables a reach interactive Python shell)

pip3.9 install jupyter

**Note**: *The commands above assume you are using Python 3.9. If you are using another version of Python please change pip3.9 to reflect the other version of Python you are using (e.g.,pip3.8)*.

## Exploring the Dataset with Python and pandas:

*Note: It seems like a lot of this section will be done in* ***Jupyter Notebook***.

* We created a folder called **reviews\_analysis** and placed our **reviews.csv** file inside it, then opened a **Jupyter Notebook** session inside. Then we hit “New” and chose “Python 3”. We renamed our Jupyter Notebook to “**reviews**”.
* We then imported pandas and set **data = pandas.read\_csv(“reviews.csv”)**. When we run **data** in a new line, it returns a very long (truncated) .csv list of classes and reviews (45000 rows and 4 columns). If we run **data.head()**, it will print out the first (5) rows of the DataFrame only. It’s good to keep the **head** of the DataFrame displayed here to give us some visual reference for what we’re working with.
* Running **data.shape** in the next cell gives us the shape, or the number of rows and the number of columns (45000, 4).
* Running **data.columns** gives us the names of the columns (even though we already see that in our data.head() cell).
* Usually when we’re working with data, we have some specific columns that we’re interested in. In this case, we might be interested in seeing an overview of the **Rating** column. To see a histogram of the distribution of Ratings, we run **data.hist(“Rating”)**.
  + **Note:** Jupyter Notebook allows us to simply run this on its own, and a histogram will pop up. It does this by installing a dependency, matplotlib-inline.
  + To get it to run in another IDE (i.e. VSCode), we need to **import matplotlib.pyplot as plt**, create a new DataFrame **df = pandas.DataFrame(data)**, and we need to run **plt.hist(df[‘Rating’])** down below.

import pandas

import matplotlib.pyplot as plt

data = pandas.read\_csv("reviews.csv")

df = pandas.DataFrame(data)

plt.hist(df['Rating'])

plt.show()

* In the next few lectures, we’re going to zoom in on our data and look at it in more detail.

## Selecting Data:

* *Note: This section and some of its terminology really reminds me of MySQL*.
* He started by opening a fresh session in Jupyter Notebook, then navigated to and opened his **reviews.ipynb** file. He wanted to point out that if you’ve just reopened a Jupyter Notebook file and then try and simply run **data** to access that object, you’ll get a NameError.
  + This is because Jupyter Notebook treats this entire script and all its individual cells as though they haven’t been run yet, including assigning something to “data”.
  + To fix this, you need to execute all the cells, either by going to each cell and pressing *SHIFT+ENTER*, or go up to the **Fast Forward** button up top to run all cells.
* Now, he wants to add a **markdown** cell *above* the top cell. To do this, we go up to the cell and press ESC, then press “**A**” on the keyboard. Then, still not entered in this new cell, we press “**M**” to change it to a markdown cell. This cell no longer expects Python code, it expects Markdown text.
* We typed “**## 1. Overview of the dataframe**” and then CTRL+Enter to change this to a *title*. Adding more **#**s causes it to appear in a smaller font.
* Down below our histogram from last time, we added another Markdown cell stating “**## 2. Selecting data from the dataframe**”, then:
* Created a new Markdown cell below that saying “**### Select a column from the dataframe**”.
* Below that we ran **data[‘Rating’]** to output the data from just that column. This is the first step to extracting useful data from our column, such as the *mean*.
  + **data[‘Rating’].mean()**
  + Note: **type(data[‘Rating’].mean())** outputs **pandas.core.series.Series**.
* We created a new Markdown cell, “**### Select multiple columns**”. The method for selecting multiple columns takes a list of lists:
  + **data[[‘Course Name’, ‘Rating’]]**
  + Note: **type(data[[‘Course Name’, ‘Rating’]])** outputs **pandas.core.frame.DataFrame**.
* We created a new Markdown cell, “**### Selecting a row**”.
  + **data.iloc[***index of row***]**
  + **data.iloc[3]** outputs all the info from a row.
  + Note: **type(data.iloc[3])** outputs **pandas.core.series.Series**.
* We created a new Markdown cell, “**### Selecting multiple rows”**.
  + **data.iloc[1:3]**, (note, this takes a slice [1:3])
  + **type(data.iloc[1:3])** outputs **pandas.core.frame.DataFrame**.
* We created a new Markdown cell, “**### Selecting a section**”. This is a cross-section of particular columns and particular rows that will give us a slice of the DataFrame.
  + **data[[‘Course Name’, ‘Rating’]].iloc[1:3]**; we can use iloc here because we’re working on a DataFrame.
* We created a new Markdown cell, “**### Selecting a cell**”. Let’s say we want to select the specific cell that is the cross-section of the row with index 2 and the column “Timestamp”.
  + **data[‘Timestamp’].iloc[2]**
  + Note: **type(data[‘Timestamp’].iloc[2])** outputs **str** in this case, but it’s going to output whatever type is in a given cell, such as **float**.
* There’s also a faster way to cross-section a cell:
  + **data.at[2, ‘Rating’]**
  + He recommends this method.

## Filtering the Dataset:

* We created a Markdown cell, “**## 3. Filtering data based on conditions**”, then another below called “**### One condition**”.
* We want to filter the data to show where the Rating is greater than 4:
  + **data[data[‘Rating’] > 4]**
  + This gives us all cases where the rating is 4.5 or 5.0 (it would’ve included 4.0 if we’d used >= instead).
  + Using **len(data[data[‘Rating’] > 4])** gives us **29758**.
  + Can also use **data[data[‘Rating’] > 4].count()**, which gives counts for **Course Name** (29758), **Timestamp** (29758), **Rating** (29758), and **Comment** (4927).
* You can also just return a column of this DataFrame with:
  + **data[data[‘Rating’] > 4][‘Rating’]**
  + This returns the column ‘Rating’, but with only values of 4.5 or 5.0.
  + To clarify how this works, he set:
  + **d2 = data[data[‘Rating’] > 4]** to set the DataFrame to a variable.
  + Then he ran **d2[‘Rating’]** to get the sorted column ‘Rating’ again.
* We can also apply methods such as **.mean()** to our sorted data:
  + **d2[‘Rating’].mean()** gives us the mean of all ratings of 4.5 and/or 5.0.
* We then created a Markdown cell, “**### Multiple conditions**”.
* Let’s say we want to filter for where the ‘Rating’ is greater than 4 and the ‘Course Name’ is equal to “The Python Mega Course…”:
  + **data[ ( ) & ( ) ]**
  + **data[(data[‘Rating’] > 4) & (data[‘Course Name’] == ‘The Complete Python…)]**
  + We can also get the mean out of this filter:
  + **data[(data[‘Rating’] > 4) & (data[‘Course Name’] == ‘The Complete Python…)].mean()**
* In the next lecture, we’re going to look at filtering a database on *times*.

## Time-Based Filtering:

*Note: In addition to the usual Pandas and Datetime Documentation, resources for this lecture include Pytz Documentation*.

* We started with a new main section, “**## 4. Time-based filtering**”.
  + **data[ (data[‘Timestamp’] >** 1st Jul., 2020 **) & (data[‘Timestamp’] <** 31st Dec., 2020 **) ]**
  + To do this, we’ll need a datetime object, as Python isn’t smart enough to parse dates from strings (for example).
  + Up at the top of our program, we need to add **from datetime import datetime**.

## 4. Time-based filtering

~~data[(data['Timestamp'] >= datetime(2020, 7, 1)) & (data['Timestamp'] < datetime(2020, 12, 31))]~~

* However, we got a **TypeError** doing this. The reason for this is that **data[‘Timestamp’]** is a column containing **strings**. These strings need to be converted to **datetimes** to allow for comparison.
* To do this, we need to go up to the top of our program and add another argument to our **.read\_csv()** method:
  + **data=pandas.read\_csv(“reviews.csv”, parse\_dates=[‘Timestamp’])**
* Now when we run it, we get another TypeError because the formatting of the datetimes is wrong between the ones we’re comparing. Our parsed version is in **UTC**, but the version we input later is simply a **datetime**, or a “naïve datetime object”. We need to declare an explicit time system for our input datetimes:
  + First we need to go up top again and run **from pytz import utc** to get our UTC object.
  + Then:

## 4. Time-based filtering

print(data[(data['Timestamp'] >= datetime(2020, 7, 1, **tzinfo=utc**)) & (data['Timestamp'] < datetime(2020, 12, 31, **tzinfo=utc**))]) **🡨 🡨 🡨**

## Turning Data into Information:

* So far, we’ve only *extracted data* from our DataFrame, but the goal of *Data Analysis* is to turn ***data*** *into* ***information***.
* For this video, we’re going to answer a series of questions, and he’s already gone and created a bunch of Markdown cells to divide the sections:
* **## 5. From data to information**
  + **### Average rating**
  + **### Average rating for a particular course**
  + **### Average rating for a particular period**
  + **### Average rating for a particular period for a particular course**
  + **### Average of uncommented ratings**
  + **### Average of commented ratings**
  + **### Number of uncommented ratings**
  + **### Number of commented ratings**
  + **### Number of comments containing a certain word**
  + **### Average of commented ratings with “accent” in the comment**
* ### Average rating:
  + **data[‘Rating’].mean()**
* ### Average rating for a particular course:
  + **data[‘Course Name’]==’The Python Mega Course: Build 10 Real World Applications’][‘Rating’].mean()**
* ### Average rating for a particular period:

data[(data['Timestamp'] > datetime(2020, 1, 1, tzinfo=utc)) &

     (data['Timestamp'] < datetime(2020, 12, 31, tzinfo=utc))]['Rating'].mean()

* ### Average rating for a particular period for a particular course:

data[(data['Timestamp'] > datetime(2020, 1, 1, tzinfo=utc)) &

     (data['Timestamp'] < datetime(2020, 12, 31, tzinfo=utc)) &

    (data['Course Name']=='The Python Mega Course: Build 10 Real World Applications')

    ]['Rating'].mean()

* ### Average of uncommented ratings:
  + **data[data[‘Comment’].isnull()][‘Rating’].mean()**
* ### Average of commented ratings:
  + **data[data[‘Comment’].notnull()][‘Rating’].mean()**
* ### Number of uncommented ratings:
  + **data[data[‘Comment’].isnull()][‘Rating’].count()**
* ### Number of commented ratings:
  + **data[data[‘Comment’].notnull()][‘Rating’].count()**
* ### Number of comments containing a certain word:
  + If we run **~~data[data[‘Comment’].str.contains(‘accent’)]~~** we get an error, because Python can’t search **NaN** fields in the ‘Comment’ column for a string. So:
  + **data[data[‘Comment’].str.contains(‘accent’, na=False)]** gives us what we want
* ### Average of commented ratings with “accent” in comment:
  + **data[data[‘Comment’].str.contains(‘accent’, na=False)][‘Rating’].mean()**
* In the next lecture, we’re going to learn about **Plotting**.

## Aggregating and Plotting Average Ratings by Day:

* For this lecture, we go into our main Jupyter Notebook directory in the browser and **create a new Python file there**. The first thing we need to do in this new file is to *load the DataFrame*, so to do this we go into our previous file and copy/paste the first cell into our new one.
* Before we get to work creating our graph, we need to do some **data aggregation**. We want to aggregate average ratings for a given day. We can do this by using the **pandas .groupby() method**:
  + **day\_average = data.groupby([‘Timestamp’])**
  + However, this alone isn’t able to properly group by day, because within the ‘Timestamp’ column there are entries from different times of the same day.
  + To fix this, we need do some data processing beforehand:
  + **data[‘Day’] = data[‘Timestamp’].dt.date**
  + This gives our DataFrame a new column called ‘Day’ that we can now group by.
  + **day\_average = data.groupby([‘Day’])**
  + Now, ‘Day’ is still not aggregated, so we need to give another command to tell pandas the method of aggregation, which in this case is the mean():
  + **day\_average = data.groupby([‘Day’]).mean()**
  + Note: If we run **type(day\_average)** the output is **pandas.core.frame.DataFrame**. However, it has only one column, ‘Rating’; ‘Day’ is not a column, it’s the index. We can access it using **day\_average.index**.
  + We can also convert to a list with **list(day\_average.index)**, which we can use to help plot the data points.
* Now for the **plotting**. We first need to **import matplotlib.pyplot as plt**.
* Then down below our day\_average we run **plt.plot()**. This method takes an **x-value** and a **y-value** as its arguments.
  + For our x-value we want the days, so **day\_average.index**
  + For our y-value we want the average rating, so **day\_average[‘Rating’]**
  + So: **plt.plot(day\_average.index, day\_average[‘Rating’])**
  + Note: VSCode version requires line **plt.show()** afterward to actually show a popup of the plot.
  + The **y-axis** shows the ratings, and it goes from 3.8 to 5.0 in this case; matplotlib picks that range automatically by looking at the data.
  + The days along the **x-axis** are kind of difficult to read, but we’re going to fix that with formatting later. We can work with this by declaring a **.figure()** object and giving it a size:
    - **plt.figure(figsize=(25, 3))** 🡨 (comes in nicely in Jupyter Notebook, but the VSCode popup is too big for my screen).
  + If you still feel this graph doesn’t tell you enough about the trends, we can **downsample** the data, such as with **weekly data** or **monthly data**.
* We’ll learn about **downsampling** in the next lecture.

## Downsampling and Plotting Average Ratings by Week:

* We used some Markdown cells to separate out a few sections. The code from last lecture went into “**### Rating average/count by day**”.
* Down below last lecture’s code, we created a new Markdown cell, “**### Rating average by week**”. We now want to aggregate ratings by week:
  + However, running **data[‘Week’] = data[‘Timestamp’].dt.week** tries to aggregate, say, the first week of 2018 with the first week of 2019, etc. Running **data[‘Week’].max()** gives us **53** weeks.
  + Let’s try **data[‘Week’] = data[‘Timestamp’].dt.isocalendar().week**, but running **data[‘Week’].max()** still gives us **53**…
  + We need to use **data[‘Week’] = data[‘Timestamp’].dt.strftime(‘%Y-%U’)**,
    - This parses *strings* from *time* (hence “strftime”) and passes that a symbol for ‘Year’ (**‘%Y’**) and one for ‘Week’ (**‘%U’**).
    - He then went over some other symbols, such as the symbol for ‘Month’ (**‘%m’**).
    - You can also separate these codes with different things, such as dash (‘-‘), colon (‘:’), and even space (‘ ’).
    - You can look up a list of “Python datetime format codes” to find more.
* We then want to create a storage variable **week\_average** and set it to group-by week:
  + **week\_average = data.groupby([‘Week’]).mean()**
  + When we print this out, the ‘Week’ column is the index.
* Now it’s time for the **plotting**.
  + **plt.plot(week\_average.index, week\_average[‘Rating’])**
  + You’ll notice that the x-axis labels for this graph are smashed up against each other, making them difficult to read, and there are ways to fix that, but the instructor says it probably isn’t worth doing in matplotlib.
  + He mentions some more advanced Python plotting libraries that we’ll use in coming lectures.
* Comparing the graph for daily averages compared to weekly averages, it becomes more apparent that **downsampling** can be better for showing trends.
* Next up, we’re going to continue downsampling to show **average ratings per month**.

## Downsampling and Plotting Average Ratings by Month:

* I noticed that this video was quite short (only 2 minutes long), so I decided to try my hand and programming this just with what I’d learned in previous lectures.
* I managed to get it right just by copy/pasting code from the ‘Week’ downsample and swapping out some arguments and variables:
  + Ran **data[‘Month’] = data[‘Timestamp’].dt.strftime(‘%Y-%m’)** 🡨 swapped out ‘%U” for ‘Week’ here with ‘%m’ for ‘Month’.
  + Ran **month\_average = data.groupby([‘Month’]).mean()** to set a storage variable.
  + Ran **plt.plot(month\_average.index, month\_average[‘Rating’])** to plot it.
* I then watched through the lecture to double-check my work. Got it in one.
* You’ll notice that in both the **weekly** and **monthly** graphs, the y-axis range has changed from the **daily** one.
* In the next lecture, we’re going to learn how to put multiple lines in a graph to show more data.

## Average Ratings by Course by Month:

* In this lecture we’re going to generate a plot with different lines, and each line is going to represent the **average rating per course**.
* Starting out, we can reuse our **data[‘Month’] =** setup from the last lecture.
* Graphical user interface, text, application, email

  Description automatically generatedHowever, we need a new variable **month\_average\_crs** to group by both ‘Month’ AND ‘Course Name’. Running **month\_average\_crs = data.groupby([‘Month’, ‘Course Name’]).mean()** gives us this:
* The courses and their own averages are grouped by month now.
* It has **two indexes**: **‘Month’** and ‘**Course Name**’, and running **month\_average\_crs.index** shows this explicitly. Running **month\_average\_crs.columns** gives us only one column: ‘**Rating**’.
* To get this data into a better structure, we want to add an **.unstack()** method:
  + **month\_average\_crs = data.groupby([‘Month’, ‘Course Name’]).mean().unstack()**
* Now when we run **month\_average\_crs[-20:]**, we get a column for each course. You might notice that some entries are NaN; this is because a given course might not have been published yet.
* Now that we have a *useful data structure*, we can **plot it**. However, we can’t use the method we used previously since we have so many more columns.
  + The **x-axis** is going to remain the ‘**Month**’ of course.
  + The **y-axis** values will be different for every ‘**Course Name**’.
  + One way to do this would be to write a plot function **plt.plot()** multiple times, one for every Course.
  + Another way would be to use a loop to write separate plot functions.
  + However, a simpler way would be to just point to **month\_average\_crs.plot()**
  + To control figsize, we run **month\_average\_crs.plot(figsize=(25, 8))**
* He also showed us that if we run **.count()** instead of .mean(), the legend gets really ugly. This is because it’s not just counting ‘Rating’, but also all of the other columns such as ‘Timestamp’ and ‘Comment’ as well. This is not very useful.
* So how do we extract just the ‘**Rating**’ from this .count() method? Well actually it’s very easy to do:
  + The .groupby() method returns a DataFrame.
  + We can extract a single column from the DataFrame:
  + Graphical user interface, application

    Description automatically generated**month\_average\_crs = data.groupby([‘Month’, ‘Course Name’])[‘Rating’].count().unstack()**

## What Day of the Week are People the Happiest?

* We’re going to find out which day of the week has the average most positive ratings.
* We run:
  + **data[‘Weekday’] = data[‘Timestamp’].dt.strftime(‘%A’)**
  + **weekday\_average = data.groupby([‘Weekday’]).mean()**
  + **plt.plot(weekday\_average.index, weekday\_average[‘Rating’])**
* This gives us a chart, but the days are out of order (they’re in alphabetical order it seems). To get them in the proper order, we need to input some code after *weekday\_average* to see what’s going on:
  + **weekday\_average = weekday\_average.sort\_values(‘Weekday’)**
  + So far, our code looks like this:

data['Weekday'] = data['Timestamp'].dt.strftime('%A')

weekday\_average = data.groupby(['Weekday']).mean() # group

weekday\_average = weekday\_average.sort\_values('Weekday') # order

plt.plot(weekday\_average.index, weekday\_average['Rating'])

plt.show()

* + **weekday\_average**
    - outputs the alphabetical order. This is because when we run **weekday\_average.index** on its own, it shows that it’s indexing the days—as ***strings***—based on alphabetical order.
    - There are different ways to fix this.
  + We add: **data[‘Daynumber’] = data[‘Timestamp’].dt.strftime(‘%w’)** after we add the ‘Weekday’ column up above.
  + We add another argument to our **.groupby()** method:
    - **weekday\_average = data.groupby([‘Weekday’, ‘Daynumber’]).mean()**
  + We change our **.sort\_values(‘Weekday’)** to **.sort\_values(‘Daynumber’)**
  + And we tack on a **.get\_level\_values(0)** method to our **.index** method down in the plotting section:

data['Weekday'] = data['Timestamp'].dt.strftime('%A')

data['Daynumber'] = data['Timestamp'].dt.strftime('%w') **🡨 🡨 🡨**

weekday\_average = data.groupby(['Weekday', '**Daynumber**']).mean() **🡨 🡨 🡨**

weekday\_average = weekday\_average.sort\_values('**Daynumber**') **🡨 🡨 🡨**

plt.figure(figsize=[15, 3]) **VVVVV**

plt.plot(weekday\_average.index.**get\_level\_values(0)**, weekday\_average['Rating'])

plt.show()

## Other Types of Plots:

* So far, all the plots we’ve done in this section have been ***line plots***.
* So how do we go about using different types of graphs?
* All of these plots have been made with the **.plot()** method, but if we use **dir(plt)**, we can see other types of graphs, such as **.bar()**:
  + **plt.bar(weekday\_average.index.get\_level\_values(0), weekday\_average[‘Rating’])**

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* Another choice is **.pie()**, but this option isn’t well-suited to our data in this case and will cause an error. Running **help(plt.pie)** shows that **.pie()** expects a single argument **x**. So how can we make use of **.pie()** for our data?
* We created a new Markdown cell, **“### Number of ratings by course”**, then in the next cell we ran:
  + **share = data.groupby([‘Course Name’])[‘Rating’].count()**
  + **print(share)**
  + We can use this total count of ratings per course now.
* In a new cell, we ran:
  + **plt.pie(share)**
  + Which gives us a pie chart. However, it doesn’t have any labels, so:
  + **plt.pie(share, labels=share.index)**

### Number of ratings by course

share = data.groupby(['Course Name'])['Rating'].count()

# print(share) # check

plt.figure(figsize=[12, 5])

plt.pie(share, labels=share.index)

plt.show()

# Section 21: App 3 (Part 2): Data Analysis and Visualization – in-Browser Interactive Plots:

## Intro to the Interactive Visualization Section:

* Looks like we’re going to be working with the same dataset as last section.
* He showed off interactive graphs of average ratings *by day*, *by week*, *by month*, *by month by course*, a cool looking *streamgraph* of “Analysis of Course Reviews”, “When are People the Happiest?”, and an interactive pie chart called “Number of Ratings by Course”.
* We’re mainly going to be using **Highcharts** (a Python library) through **JustPy** in this section.
  + **JustPy** is a framework for using Python to generate modern-looking websites without writing any HTML, JavaScript, or CSS.

## Making a Simple Web App:

* He noted towards the beginning of the video that Jupyter Notebook won’t work here, so one should use an IDE such as VSCode. I prefer that over Jupyter anyway, personally.
* We start by installing **JustPy** (pip3.10 install justpy), then we import it into our new **0-simple-app.py** program that we’re now creating.
* We then create a function **app()** and set a variable **wp** (for “webpage”, but we can name it whatever). We add ***JavaScript functionality*** with **Quasar**, which is a JS library.

import justpy as jp **🡨 🡨 🡨**

def app():

    wp = jp.QuasarPage() # wp stands for webpage

    h1 = jp.QDiv(a=wp, text="Analysis of Course Reviews")

    p1 = jp.QDiv(a=wp, text="These graphs represent course review analysis")

    return wp

* Now if we run this code on its own, nothing will happen yet because no instance is calling this **app()** function that we’ve created. Do call the function, we just add:

import justpy as jp

def app():

    wp = jp.QuasarPage() # wp stands for webpage

    h1 = jp.QDiv(a=wp, text="Analysis of Course Reviews")

    p1 = jp.QDiv(a=wp, text="These graphs represent course review analysis")

    return wp

**jp.justpy(app) 🡨 🡨 🡨**

* Running this code will return a message such as:
  + “**JustPy ready to go on http://127.0.0.1:8000**”
  + which is the IP address you can copy/paste to your browser or **CTRL + Click** to see your webpage.
* At this stage, our text is just plaintext because we haven’t added any *style* to it yet. To add style, we can add extra arguments to our **QDiv()** callouts. We can look up styles by doing a google search for **“quasar style”**.
  + We added the argument **classes=”text-h1”** to our **h1** variable in our app function.
  + He noted that just re-running the Python code while it’s already running won’t do anything, you need to type **CTRL + C** to stop the old code first.
* Here’s our code at the end:

import justpy as jp

def app():

    wp = jp.QuasarPage() # wp stands for webpage

    h1 = jp.QDiv(a=wp, text="Analysis of Course Reviews",

classes="text-h3 text-center q-pa-md")

    p1 = jp.QDiv(a=wp, text="These graphs represent course review analysis")

    return wp

jp.justpy(app)

## Making a Data Visualization Web App:

*Buckle up, this is a long one.*

* We started by creating a new file, **1-av-rate-day.py** and we copied all our code from the previous file; we’re going to add **Highcharts** functionality to it.
* To decide what kind of chart we need for the data, we can go read the **Highcharts documentation** (“**Highcharts docs**” in google). Like Quasar, Highcharts is a JavaScript library. Python is getting both these libraries/frameworks together.
* On the Highcharts documentation, we clicked on “**Chart and series types**” on the left, then scrolled down to “Spline chart” as an example. He showed that there are icons on the top-right corner of the chart for “**jsFiddle**” and “**CodePen**”, which are two online code editors we can access the chart/code from.
* Once inside the code in **jsFiddle**, he showed that we need to copy all of the code after the comma after **‘container’,** :

Graphical user interface, text

Description automatically generated

* And we copy up to the final curly bracket ( **}** ) at the bottom of the code. We then go to Python, and we create a string variable:
  + **chart\_def = “”” ”””**, and then we paste our copied JS code inside here.
* The full code for this variable will look like this:

chart\_def = """

{

    chart: {

        type: 'spline',

        inverted: true

    },

    title: {

        text: 'Atmosphere Temperature by Altitude'

    },

    subtitle: {

        text: 'According to the Standard Atmosphere Model'

    },

    xAxis: {

        reversed: false,

        title: {

            enabled: true,

            text: 'Altitude'

        },

        labels: {

            format: '{value} km'

        },

        accessibility: {

            rangeDescription: 'Range: 0 to 80 km.'

        },

        maxPadding: 0.05,

        showLastLabel: true

    },

    yAxis: {

        title: {

            text: 'Temperature'

        },

        labels: {

            format: '{value}°'

        },

        accessibility: {

            rangeDescription: 'Range: -90°C to 20°C.'

        },

        lineWidth: 2

    },

    legend: {

        enabled: false

    },

    tooltip: {

        headerFormat: '<b>{series.name}</b><br/>',

        pointFormat: '{point.x} km: {point.y}°C'

    },

    plotOptions: {

        spline: {

            marker: {

                enable: false

            }

        }

    },

    series: [{

        name: 'Temperature',

        data: [[0, 15], [10, -50], [20, -56.5], [30, -46.5], [40, -22.1],

            [50, -2.5], [60, -27.7], [70, -55.7], [80, -76.5]]

    }]

}

"""

def app():

    wp = jp.QuasarPage() # wp stands for webpage

    h1 = jp.QDiv(a=wp, text="Analysis of Course Reviews", classes="text-h3 text-center q-pa-md")

    p1 = jp.QDiv(a=wp, text="These graphs represent course review analysis")

**hc = jp.HighCharts(a=wp, options=chart\_def) 🡨 🡨 🡨**

    return wp

jp.justpy(app)

* We now go down and add a new **hc** (for Highcharts) variable in our **app()** function:
* Now when we run the code and follow the output IP address, the chart we copy/pasted into **chart\_def** shows up on our webpage. JustPy is converting the JS code (JSON) into a **Python dictionary**, but a special type of dictionary (‘**addict.addict.Dict**’ type). This also allows us to access keys/values using dot-notation now:
  + **title.text** for example gives us the data from the “text” key.
  + **hc.options.title.text = “Average Rating by Day”** will change the title of our graph.
* We can change any data we like in the template graph, which is important because we want to show *our* data in a graph. In particular, the graph has a **series** key, which is where our data points will go. This **series key** has two sub-keys: **name: ‘Temperature’** and **data:** [[data]].
  + Note that **series**’ value is a ***list*** of one item, which is a dictionary containing name and data, so we have to treat it like a list. Data itself is a list of lists.
  + We’re going to change this data in our **app()** function:

    hc.options.title.text = "Average Rating by Day"

**hc.options.series[0].data = [[3, 4], [6, 7], [8, 9]]** **🡨 🡨 🡨**

    return wp

* Note also that the template graph we brought in was set as an inverted graph, and we can change this by going up to the top and setting “inverted” to “false”:

chart\_def = """

{

    chart: {

        type: 'spline',

        inverted: **false** **🡨 🡨 🡨**

* We can also change our data directly within the JSON code, but later we’re going to learn to “inject” DataFrames into this data’s place anyway.
* Now, we’re not usually going to type a list of lists as our new data like we have so far. More likely, we’re going to separate x and y and then **list**/**zip** them up before passing them:

    hc.options.title.text = "Average Rating by Day"

    x = [3, 6, 8] **🡨 🡨 🡨**

    y = [4, 7, 9] **🡨 🡨 🡨**

    hc.options.series[0].data = **list**(**zip**(x, y)) **🡨 🡨 🡨**

* Now that brings us to our DataFrame, which we can pull over from our Jupyter Notebook version (**plotting.ipynb** or **plotting.py**) with copy/paste if we wish:

import justpy as jp

import pandas **🡨 🡨 🡨**

from datetime import datetime **🡨 🡨 🡨**

from pytz import utc **🡨 🡨 🡨**

data = pandas.read\_csv("reviews.csv", parse\_dates=['Timestamp']) **🡨 🡨 🡨**

* We can also bring over our “Average/count rating by day”, which is a parsed/aggregated version of our DataFrame:

data = pandas.read\_csv("reviews.csv", parse\_dates=['Timestamp'])

data['Day'] = data['Timestamp'].dt.date **🡨 🡨 🡨**

day\_average = data.groupby(['Day']).mean() **🡨 🡨 🡨**

* We can then go back down to **app()** and replace ‘x’ and ‘y’ with “**day\_average.index**’ and ‘**day\_average[‘Rating’]**”:

    hc.options.title.text = "Average Rating by Day"

    hc.options.series[0].data = list(zip(**day\_average.index**, **🡨 🡨 🡨**

**day\_average['Rating']**)) **🡨 🡨 🡨**

* However, running this as-is produces a blank graph and no error message. This is because Highcharts considers dates in the format ‘**2018-01-01**” to be *categories* and not *numbers*. To fix this, we need to add a “**categories**” sub-key to the **xAxis** key:

    hc.options.xAxis.categories = list(day\_average.index) **🡨 🡨 🡨**

    hc.options.series[0].data = list(day\_average['Rating'])

* Note that we just have to pass a list of **day\_average[‘Rating’]** now.
* At this point we still have some label tooltips and some axis titles from the template chart, but we can change them. In this case, he suggests just changing everything directly in the JavaScript code.

## Changing Graph Labels in the Web App:

* He started off by talking about changing the template chart’s default labels, and mentions that you can change them with dot-notation, but that it’s better in this case to just change them in the JavaScript code. We/I already did some of this at the end of the last lecture. Nothing new, really.

## Adding a Time-Series Graph to the Web App:

* We started off by creating a new file **2-av-rate-week.py** and copy/pasting our base code from 0-simple-app.py. Then we created a new Highcharts object **hc**:
  + **hc = jp.HighCharts(a=wp, options=chart\_def)**
* To create our new **chart\_def**, we can use an example from HighCharts docs again. However, in this case it makes sense to just reuse the spline chart. We can copy it over from jsFiddle again, or copy it from our previous code.
* We also want to, again, copy the various **import** lines and the **data =** line from the code we used in Jupyter Notebook.

import justpy as jp

import pandas **🡨 🡨 🡨**

from datetime import datetime **🡨 🡨 🡨**

from pytz import utc **🡨 🡨 🡨**

data = pandas.read\_csv("reviews.csv", parse\_dates=['Timestamp']) **🡨 🡨 🡨**

* We also need to parse our data by ‘Week’ this time:

data = pandas.read\_csv("reviews.csv", parse\_dates=['Timestamp'])

data['Week'] = data['Timestamp'].dt.strftime('%Y-%U')

week\_average = data.groupby(['Week']).mean()

* Then we have to add to our **app()** function down below, to overwrite the template JS code:

    hc = jp.HighCharts(a=wp, options=chart\_def)

    hc.options.title.text = "Average Rating by Day"

    hc.options.xAxis.categories = list(week\_average.index)

    hc.options.series[0].data = list(week\_average['Rating'])

Full **app()** code looks like this:

def app():

    wp = jp.QuasarPage() # wp stands for webpage

    h1 = jp.QDiv(a=wp, text="Analysis of Course Reviews", classes="text-h3 text-center q-pa-md")

    p1 = jp.QDiv(a=wp, text="These graphs represent course review analysis")

    hc = jp.HighCharts(a=wp, options=chart\_def)

    hc.options.title.text = "Average Rating by Day"

    hc.options.xAxis.categories = list(week\_average.index)

    hc.options.series[0].data = list(week\_average['Rating'])

    return wp

## Exercise: Monthly Time-Series:

* Time to do the same thing we just did, but for months. Pretty much just swapped some things out. Here are some comparisons of parts of all three:

**DataFrame Setup, Daily:**

data = pandas.read\_csv("reviews.csv", parse\_dates=['Timestamp'])

data['Day'] = data['Timestamp'].dt.date

day\_average = data.groupby(['Day']).mean()

**DataFrame Setup, Weekly:**

data = pandas.read\_csv("reviews.csv", parse\_dates=['Timestamp'])

data['Week'] = data['Timestamp'].dt.strftime('%Y-%U')

week\_average = data.groupby(['Week']).mean()

**DataFrame Setup, Monthly:**

data = pandas.read\_csv("reviews.csv", parse\_dates=['Timestamp'])

data['Month'] = data['Timestamp'].dt.strftime('%Y-%m')

month\_average = data.groupby(['Month']).mean()

**app(), Daily:**

def app():

    wp = jp.QuasarPage() # wp stands for webpage

    h1 = jp.QDiv(a=wp, text="Analysis of Course Reviews", classes="text-h3 text-center q-pa-md")

    p1 = jp.QDiv(a=wp, text="These graphs represent course review analysis")

    hc = jp.HighCharts(a=wp, options=chart\_def)

    hc.options.title.text = "Average Rating by Day"

    hc.options.xAxis.categories = list(day\_average.index)

    hc.options.series[0].data = list(day\_average['Rating'])

    return wp

**app(), Weekly:**

def app():

    wp = jp.QuasarPage() # wp stands for webpage

    h1 = jp.QDiv(a=wp, text="Analysis of Course Reviews", classes="text-h3 text-center q-pa-md")

    p1 = jp.QDiv(a=wp, text="These graphs represent course review analysis")

    hc = jp.HighCharts(a=wp, options=chart\_def)

    hc.options.title.text = "Average Rating by Week"

    hc.options.xAxis.categories = list(week\_average.index)

    hc.options.series[0].data = list(week\_average['Rating'])

    return wp

**app(), Monthly:**

def app():

    wp = jp.QuasarPage() # wp stands for webpage

    h1 = jp.QDiv(a=wp, text="Analysis of Course Reviews", classes="text-h3 text-center q-pa-md")

    p1 = jp.QDiv(a=wp, text="These graphs represent course review analysis")

    hc = jp.HighCharts(a=wp, options=chart\_def)

    hc.options.title.text = "Average Rating by Month"

    hc.options.xAxis.categories = list(month\_average.index)

    hc.options.series[0].data = list(month\_average['Rating'])

    return wp

## Multiple Time-Series Plots:

* In this lecture we’re going to recreate our graph for **Average rating by month by course**, similar to the version we created in Jupyter Notebook.
* We’re going to start off by going to **HighCharts docs** again to choose a chart type. For this one, we’ll be using one called **Areaspline chart**, which can plot multiple splines.
* Once he copied in some of our template code and then the JS code from HighCharts, he mentioned that it’s a good idea to try testing out the unmodified chart first.
  + When we test out the unmodified JS code, we get an error in both Python terminal and in the webpage. I noticed this myself when I tried getting ahead of the video, so it’s good to know it’s not just me.
  + The error happens because of this line in **backgroundColor**:
    - Highcharts.defaultOptions.legend.backgroundColor || '#FFFFFF'
  + Python doesn’t recognize this because it’s JavaScript, so we want to delete everything in the line except for: **‘#FFFFFF’**. Removing this line allows the code/graph to work.
* We can also get rid of the ***area shading*** that comes in with this type of chart by default by *changing* type: ‘**areaspline**’ to *‘***spline***’* up top.
* Once again, we then copy our **import** and **DataFrame** code from our Jupyter Notebook version and paste that up top. We then copy our **aggregation** code just below that:

import justpy as jp

from calendar import month

import pandas

from datetime import datetime

from pytz import utc

data = pandas.read\_csv("reviews.csv", parse\_dates=['Timestamp'])

data['Month'] = data['Timestamp'].dt.strftime('%Y-%m')

month\_average\_crs = data.groupby(['Month', 'Course Name']).mean().unstack()

* Now down in the **app()** function, we need to create the list found in **series:** dynamically, that will replace both **name** and **data** within it.
  + Ref: **series: [ { name: ‘John’, data: [ ] }, { name: ‘Jane’, data: [] }** ] is more or less the default series entry on his screen. HighCharts has updated mine to be about ‘moose’ and ‘deer’.
  + We need to use **list comprehension** to create a new dynamic variable **hc\_data**:

def app():

    wp = jp.QuasarPage() # wp stands for webpage

    h1 = jp.QDiv(a=wp, text="Analysis of Course Reviews",

classes="text-h3 text-center q-pa-md")

    p1 = jp.QDiv(a=wp, text="These graphs represent course review analysis")

    hc = jp.HighCharts(a=wp, options=chart\_def)

    hc.options.xAxis.categories = list(month\_average\_crs.index)

    # creates list comprehension of Course Names, average ratings column

    hc\_data = [{"name": v1, "data": [v2 for v2 in month\_average\_crs[v1]]} for v1 in month\_average\_crs.columns] **🡨 🡨 🡨**

    hc.options.series = hc\_data **🡨 🡨 🡨**

    return wp

jp.justpy(app)

Chart

Description automatically generated with low confidence

* All the course charts are shown together, but as you can see, the legend is floating over the charts to the left. We can change that by looking at our JS code for “**legend:**” and then setting “**floating:**” to ‘**false**’.
* Ended up playing around with some JS options that were causing issues for me but weren’t present for his version.
* In the next lecture we’re going to decide on the best type of chart to show the **rating count per month per course**, since this graph doesn’t present it well. We’ll use a **Stream Graph**.

## Multiple Time-Series Streamgraph:

* We’re going to start by duplicating our **4-av-rate-crs-month.py** code to create **5-av-rate-month-stream.py**, because we can reuse almost all of our code from the previous lecture. All we need to change is the **JS code for the graph**.
* Running the code with the template graph (a stream chart about Olympic medal wins) as-is gives us an error due to the JSON. We need to delete all mention of **“colors”** variables from the JS code.
* Running it after deleting “colors” gives us another error, “**Ampezzo**”, which appears to be in the list of cities the Olympics were held in. This JS syntax is found in the xAxis categories, and since we’re going to replace this when we inject our data anyway, we can just delete the whole categories section that it’s in. We end up leaving these categories as an empty list.
* Playing around fixes things, and we would need to change some of the labeling and tooltips as usual, but I didn’t feel like doing this at this point.

## Exercise: Interactive Chart to Find the Happiest Day of the Week:

* Starting off, I’m assuming this will be more copy/paste shenanigans from when we did this in our Jupyter Notebook graphs in the last section, adding that to our more recent code.
* Changing the code up top was easy:

data = pandas.read\_csv("reviews.csv", parse\_dates=['Timestamp'])

data['Weekday'] = data['Timestamp'].dt.strftime('%A')

data['Daynumber'] = data['Timestamp'].dt.strftime('%w')

weekday\_average = data.groupby(['Weekday', 'Daynumber']).mean() # group

weekday\_average = weekday\_average.sort\_values('Daynumber') # order

* Translating data from using **plt.plot()** format to **HighCharts** format was a bit difficult, especially when I had to split what was formerly the X- and Y- data in a single line into two separate lines:

plt.figure(figsize=[15, 3])

plt.plot(~~weekday\_average.index.get\_level\_values(0),~~ ~~weekday\_average['Rating'])~~

plt.show()

* + Here’s the former **plt** version from **Jupyter plotting.py**:
  + And here’s the new version:

    hc = jp.HighCharts(a=wp, options=chart\_def)

    hc.options.xAxis.categories = list(weekday\_average.index.get\_level\_values(0)) **🡨 🡨 🡨**

    hc.options.series[0].data = list(weekday\_average['Rating']) **🡨 🡨 🡨**

* Then I had to go through and delete some stuff from the JS code because the graph wasn’t coming in properly. The range was still based on the Deer/Moose data even though our new data should’ve been injected and overwritten it.

## Adding a Pie Chart to the Web App:

* We’re going to start by going to HighCharts documentation and pulling a template for a pie chart from there.
* We’re going to be recreating our Jupyter Notebook analysis from **“Number of Ratings by Course”** and applying this pie chart to it.
* We start by creating a new file, **7-rate-crs-pie.py** and copy/pasting our basic template.
* At the top, we imported some libraries as usual, brought in our data, and copy/pasted the pie chart template:

data = pandas.read\_csv("reviews.csv", parse\_dates=['Timestamp'])

share = data.groupby(['Course Name'])['Rating'].count()

* + ~~He noted that within the~~ **~~series~~** ~~section of our pie chart template, we need to be careful because within series, the~~ **~~data~~** ~~section is a list of dictionaries for our data.~~
* ~~Instead of~~ **~~hc.options.series[0].data~~**~~, this time we use~~ **~~hc.options.series.data~~** ~~to set our options in the graph~~ (note, see note additions below):

    hc.options.series.data =

* Since we’re working with a list, we’ll need to do a **list comprehension** on our **“share”** variable, which contains the names of courses as well as their ratings:

    hc = jp.HighCharts(a=wp, options=chart\_def)

    hc\_data = [{"name": v1, "y": v2} for v1, v2 in zip(share.index, share)]

    hc.options.series.data = hc\_data

* Just running this gives us an error, **AttributeError: ‘list’ object has no attribute ‘data’**. Turns out we did need that **hc.options.series[0].data** after all.
* Adding that back in fixes the program, though I (and several other students in the Q&A section) had to delete a few JS lines in order to get the pie chart to actually show up on the page. The lines to delete were:
  + **plotBackgroundColor: null,**
  + **plotBorderWidth: null,**
  + **plotShadow: false,**
* After deleting these, my pie chart showed up perfectly.

# Section 22: App 4: Web Development with Flask – Build a Personal Website:

## Building Your First Website:

*Note: Resource for this lecture is Flask Documentation*.

* Start with **pip install flask** to install it.
* Then we created a **script1.py** file to write our website with.

from flask import Flask

app=Flask(\_\_name\_\_)

@app.route('/')

def home():

    return "Website content goes here!"

if \_\_name\_\_ == "\_\_main\_\_":

    app.run(debug=True)

* Inside the script we wrote:
* We then ran it, then went to our browser and typed in **localhost:5000** to see it. Our message shows at the top.
* To understand our 7 lines of code:
  + We **import** the **Flask class object** from the overall **flask library**.
  + We **instantiate** the Flask object as a variable called **app** and give it a special variable that will give it the **name (\_\_name\_\_)** of the Python script.
  + When we execute the Python script, it assigns the name “**\_\_main\_\_**” to the script.
    - Case 1 – Script executed: \_\_name\_\_ = “\_\_main\_\_”. This only happens if we manually execute the script.
    - Case 2 – Script imported: \_\_name\_\_ = “script1”. If imported, the conditional is not done.
  + He then changed @app.route(‘/’) to **@app.route(‘/about/’)** and reran the script. Now when we go to localhost:5000 we get a 404 error, but if we go to **localhost:5000/about/** we get a page. If we still want a home page, we would add another decorator with (‘/’) in it.
  + Finished code after these changes looks like this:

from flask import Flask

app=Flask(\_\_name\_\_)

@app.route('/')

def home():

    return "Homepage goes here!"

@app.route('/about/') **🡨 🡨 🡨**

def about(): **🡨 🡨 🡨**

    return "'About' information goes here!" **🡨 🡨 🡨**

if \_\_name\_\_ == "\_\_main\_\_":

    app.run(debug=True)

## Preparing HTML Templates:

* From flask we also import **render\_template** method of the Flask library.
* We then change our @app.route(‘/’) contents to this:

@app.route('/')

def home():

    return render\_template("home.html")

* We need to create a **home.html** file for this to point to now, and we need to store any and all html files for our program in a folder called **templates**, within the same folder as script1.py.

<!DOCTYPE html>

<html>

    <body>

        <h1>My homepage</h1>

        <p>This is a test website</p>

    </body>

</html>

* Inside our newly created **home.html** file we wrote:
* Graphical user interface, text, application, email

  Description automatically generatedWe then reloaded our homepage and got this:
* We also duplicated our home.html to create a new **about.html** file for our ‘About’ page.
  + Don’t forget to point @app.route(‘/about/’) to this HTML file like we did with the @app.route(‘.’) one.
* Checking **localhost:5000/about/** shows these changes.

## Adding a Website Navigation Menu:

* For this one he just copy/pasted some code that he’d already written for **layout.html** in the templates folder. As such, I downloaded the existing version from the resources dropdown and pasted it over to my own templates folder. I opened it and replaced his name with mine.
* Now in our other HTML files, since they will be child files, we can delete the DOCTYPE declaration, the <html> tag, and we can replace the <body> tag with **<div class=”home”>**. We also use the templating syntax to tag the file up top with **{%extends “layout.html”%}** and **{%block content%}**, and **{%endblock%}** down at the bottom:

{%extends "layout.html"%}

{%block content%}

<div class="home">

    <h1>My homepage</h1>

    <p>This is a test website</p>

</div>

{%endblock%}

* We also give our **about.html** file a similar treatment.
* Our webpage now has a navigation menu.

## Note on Browser Caching:

In the next lecture, we will add CSS styling to the webpage. Sometimes, when you make a change to the CSS file and reload the webpage, the changes are not shown because the browser uses the previous cached styling. If this happens, open the browser in private (incognito) mode and load the webpage there.

## Improving the Website Frontend with CSS:

* We want to add CSS styling to make our website look nicer. To do this, we need to do two things: create a CSS file, and link to it from our layout.html file.
* Since he just copy/pasted an existing CSS file (**main.css**), I’m just going to use the one in the resources again. We put this in a folder called **css** inside of a folder called **static**.

  <head>

    <title>Flask App</title>

    <link rel="stylesheet" href="{{url\_for('static', filename='css/main.css')}}">

  </head>

* In our layout.html, we need to add another <head> above the other one:
* Now when we reload our website, it looks much, much nicer, based on the settings included in **main.css**.
* And now we’re ready to deploy this website online, on the cloud.

## Creating a Python Virtual Environment:

*Note: Resources for this lecture include Flask Documentation and Heroku Documentation*. *Update: Heroku is no longer used in the course and has been replaced by PythonAnywhere*.

* So far, this website is only visible to localhost. To deploy it, we need to run it on a webserver or on the cloud, so we’re going to use a service called **~~Heroku~~**.
* Before deploying to Heroku, we need to do something that we should’ve done at the beginning of this section and set up a virtual environment for Python. It’s good practice to use a “clean install” of Python rather than running from the main installation. This is because we don’t need all those extra libraries from the main install if we’re running a fast application.
* We install the virtual environment with **pip install virtualenv**. We also need to create a new folder *at the same level* as the folder our website code is contained in. In this case, I’m naming it **flask\_app**. Note that he was using Atom, which works a little different from VSCode, so basically you want VSCode’s command line running from the same level of the folder your website files are stored in.
* We then run the command **python -m venv virtual**, which creates our virtual environment and a folder named “**virtual**”. This can take a few seconds to go through. If you go inside the “virtual” folder and into “scripts”, you can see that “python.exe” is in there.
* Now in the terminal we can run **virtual/Scripts/python** (“\virtual\Scripts\python” if using Windows command line), which will trigger our virtual Python environment’s interactive shell. However, we’re not interested in using the shell, so we run CTRL+Z to get out.
* We want to install Flask on our virtual environment Python, so we need to use the **pip** library from our virtual Python. To do this we run **virtual/Scripts/pip install flask**.
* With that installed, we want to run our web app from our virtual Python environment. To do that, we run **virtual/Scripts/python flask\_app/script1.py**. Going to the website and refreshing double-checks that it’s working correctly.

## How to Use the PythonAnywhere Service:

*Note: Resource for this lecture includes PythonAnywhere Documentation*. *Previously in the course, he taught students how to use Heroku, which is less user-friendly*.

* Signed up for the free version of PythonAnywhere, confirmed email, etc.
* **Dashboard:** The starting place once we’ve signed in. Pretty self-explanatory.
* **Consoles:** He gave a brief tour starting with the **Consoles** tab, which we clicked and chose to open up a **bash** console. We can use the bash console to access our own server where we’ll deploy our web app. We can also open up a Python interactive shell with **python 3**.
  + In bash, we can also use **pwd** to see our current working directory (duh), and we can use **nano** as a text editor (i.e. **nano example.py** to create and edit a Python file).
* **Files:** The next tab in the tour is **Files**, where the files for our current directory are created/stored.
  + Creating a new file here is easy, such as typing **example2.py** and clicking “New File”. This opens up a more modern-looking text editor. There are even two buttons down below: “**>>> Run this file**” and “**$ Bash console here**”.
* **Web:** The **Web** tab is where we will create/store our web app in the next lecture.
* **Tasks:** In the **Tasks** tab, we can enter in the PATH of one of our PythonAnywhere Python files and set a time to run the program every day.
* **Databases:** The **Databases** menu allows us to create a **MySQL** or **Postgres** database.

## Deploying the Flask App on PythonAnywhere:

* **Web tab:** From Dashboard we’re going to switch over to the **Web tab**, then click on “**Add a new web app**”. PythonAnywhere lets us know what the domain name for the website will be (custom domain names are only allowed in paid versions). You also need to see a *domain provider* in order to *buy a domain name*. He recommends **namecheap.com**. We click “**Next**” at the bottom of this message.
* The next page asks us to “Select a Python Web framework”, so we select “**Flask**” and hit “Next”.
* Next we select the version of Python we want (he chose 3.9, I chose **3.10**) and hit “Next”.
* The next page tells us the **name of the app** and its **Path**. It seems to come in as “flask\_app.py”, which is coincidentally what I named my local folder containing my web app. (Our **script1.py** file is going to become this.) Click “Next” to create our app.
* **Files tab:** After the app is created, we want to go to the **Files tab**. On the left we can see “**mysite/**”, which we want to click on. Inside that is **flask\_app.py**. We click on this to open it, and we delete the default code that was put inside and replace it with code from our **script1.py**.
* Just like in our local directory, we want **static** and **templates** in **mysite/** as well. Type them each into the “New directory” field to create those. Don’t forget to create a **css** folder inside of the static folder.
* Upload the **template** files **layout.html**, **home.html**, and **about.html**, and the **main.css** file into **static**.
* Once everything is uploaded, we open **flask\_app.py** and—since our app is now in “production”— at the bottom we change from app.run(debug=True) to **app.run(debug=False)**. We do this because leaving it in debug mode can make our app vulnerable to hackers.
* **Web tab:** Once we’ve made this final change, we’re ready to see our app run. However, first we need to go to the **Web tab** and click on the “**Reload**” button.
* Then we click on the URL above that in order to see our website.
  + It worked fine for me (and him), but he noted that if it doesn’t work, you scroll down in the Web tab and look for the **Error log**. Clicking on that will show you all the errors running on the Python app.

# Section 23: Building Desktop Graphical User Interface (GUI) with Python:

## Introduction to the Tkinter Library:

*Note: Resource for this lecture is Tkinter Documentation*.

* He showed off a GUI called “Bookstore” that he built with **Tkinter**, which communicates with a backend database.

## Creating a GUI Window and Adding Widgets:

* Created a new Python file called **script1.py**.
* You don’t have to pip install tkinter because it’s a built-in library, so all we have to do is import it. However, it’s good practice to import *everything* from tkinter with:
  + **from tkinter import \***
  + This is because we’re going to use a lot of objects from the tkinter library, so it makes sense to just *load them all* instead of using dot-notation like tkinter.button(). Instead we can just say **button()**.
  + ~~After coding along in the video, I noticed that he used “window = tk()”, but when I typed that, “tk” wasn’t recognized. I decided to go back to the top and “~~**~~import tkinter as tk~~**~~”. I think he just forgot.~~
  + Turns out “tk()” just needed to be capitalized as “Tk()”. This may be a holdover from Python 2 since you need to “import Tkinter” in that version.
* From tkinter, the main things we work with are the **window** and the **widgets**.
* We create an empty window variable with:
  + **window = Tk()**
  + After that, we type below that:
  + **window.mainloop()**
  + Everything for our window (widgets, etc) will go between the lines “window = Tk()” and “window.mainloop()”. If we don’t do this, the window will open and then instantly close, instead of allowing you to click the X in the top corner:

from tkinter import \*

window = Tk()

window.mainloop()

* Running our code as-is brings up an empty window. Now we just need to add widgets such as buttons.
* We’re going to start by adding a button with **b1 = Button()**. The “Button()” function takes some arguments, so we can see what arguments it takes by going into a Python interactive shell (in this case, IPython), and running “**from tkinter import \***” followed by “**Button?**” which brought up a list of “STANDARD OPTIONS”, or parameters. The first parameter we want to pass is “**window**”, followed by ‘text=”Execute”’. If we run as-is, the button still doesn’t show up, Graphical user interface, application, Teams

  Description automatically generatedbecause we need to use the **b1.pack()** method:

from tkinter import \*

window = Tk()

b1 = Button(window, text="Execute")

b1.pack()

window.mainloop()

* Now when we run it, we get a window with a clickable button labeled “Execute”. It doesn’t do anything yet though.
* However, there’s another way besides .pack() to put your buttons in a window, and that’s with the **.grid()** method.
* Often it’s a matter of preference whether to use **.pack()** or **.grid()**, but with the **.grid()** method you have more control over the position of your buttons or your widgets in general. This is because you can specify the **row** and **column** where you want to put your button:

from tkinter import \*

window = Tk()

b1 = Button(window, text="Execute")

b1.grid(row=0, column=0)

window.mainloop()

* + Graphical user interface, application, Teams

    Description automatically generated**b1.grid(row=0, column=0)**

![Table

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confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SluRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjEwOjA5IDEzOjEyOjIxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM5NAAAkpIAAgAAAAM5NAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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wC/z/8AxVFFJCHJodmWAMcnX/ns/wD8VWzpWi2JuFDW+8Ds8jn/ANmoopgeu+EbiLTbVTBZWyN67Tn+ddva+KrraQIbccdlb/Giiqn8Jvh/4kT4Z8d6tO/7WVvcEKHEvTHHVq+3H8ZX0SoFjg6f3W/xoorihufa53/Ah6En/CZXsyfPHAf+At/jWfq2rfbkKz2ltIMd1b/Giiul7Hwv2UeUeLNB06Xe/wBjSNif+Wbuv8jXBSaDZeZ/q5Mf9dn/APiqKKumaPciOiWf/POT/v8Ayf8AxVH9h2f/ADzk/wC/8n/xVFFQ9xMP7Ds/+ecn/f8Ak/8AiqP7Dsv+ecn/AH/k/wDiqKKTMgGh2Q/5Zyf9/wCT/wCKo/sOz5/dyf8Af+T/AOKoooRL3D+w7L/nnJ/3/k/+Ko/sOz/55yf9/wCT/wCKooploBoVln/Vyf8Af+T/AOKpf7Dsh/yzk/7/AMn/AMVRRUGgf2JZ/wDPOT/v/J/8VSf2HZ/885P+/wDJ/wDFUUU0VLYDodl/zzk/7/yf/FU5NBsj/wAs5P8Av/J/8VRRWiMmK3h2wduY5P8Av/J/8VUR0GyikUqkgIOf9e//AMVRRUkn1X8KfGF7Z+ErO2RIWjSMAbgxPT1zWlH9mbXjqLWUDXTL95txHftuoopAN1qWLUrq2luLWGR0bj72PyzVzWbiPUrNYJrWHylAwqhh/WiioYHJfE6/+y6DpdrDBDFCkhIVVP8Ad+tFFFSM/9k=)

* You can also add a parameter, **rowspan**, to create a button or widget that spans two rows.
  + For example, **b1.grid(row=0, column=0, rowspan=2)** would span **row 0** and **row 1** in this case. I tried it out and the window looked exactly the same as the last example though, so I decided not to include a picture.
* Graphical user interface, application

  Description automatically generated with medium confidenceWe can also add another widget, let’s say an **entry** in this case:

e1 = Entry(window)

e1.grid(row=0, column=1)

* This adds a text-box entry field to our window 🡪 🡪 🡪
* We can also add a **text widget** with **t1 = Text(window)**:

t1 = Text(window)

t1.grid(row=0, column=2)

* A picture containing square

  Description automatically generatedThis gives us a very large text box because that’s the default height and width of a **Text** widget:
* To fix this we add two more arguments to **Text(window)**, the height and width by *cell*:

t1 = Text(window, height=1, width=20)

t1.grid(row=0, column=2)

Box and whisker chart

Description automatically generated with medium confidence

## Connecting GUI Widgets with Functions:

* So far our window and its widgets don’t do anything.
* What we want at the end of this lecture is, when we type something into the **Entry** file and click the **Execute button**, we want it to print the *miles conversion from kilometers* in the **text field**.
* We want to add a “**command=**” parameter to our **b1 Button**, which takes a *function as an argument* and performs that function when the button is pressed:

def km\_to\_miles(): **🡨 🡨 🡨**

    print("Success!") # for testing

b1 = Button(window, text="Execute", command=km\_to\_miles) **🡨 🡨 🡨**

b1.grid(row=0, column=0)

* Now when we run our code and click the **Execute button**, our console prints out “**Success!**”.
* In our **e1 Entry**, we also want to use the “**textvariable=**” parameter to pull in a **StringVar()** string variable from *whatever we type into the Entry*:

**e1\_value** = StringVar() **🡨 🡨 🡨**

e1 = Entry(window, textvariable=**e1\_value**) **🡨 🡨 🡨**

e1.grid(row=0, column=1)

* To test, we want to add to our **km\_to\_miles** function:

def km\_to\_miles():

    print(e1\_value**.get()**) # for testing

* Using the **.get()** method pulls the value so it can be printed. Now when we type in a value such as “**10**” and click on **Execute**, then “**10**” is printed out in the console.
* Now we want to be able to *insert that value* into our **Text widget**. To do this, we use:

def km\_to\_miles():

    print(e1\_value.get()) # for testing

    t1.insert(END, e1\_value.get()) **🡨 🡨 🡨**

* Now every time we type something and click Execute, the string gets tacked onto the end in the Text widget.
* Now we want to make our function actually convert **kilometers to miles**, so we add:

def km\_to\_miles():

    print(e1\_value.get()) # for testing

    miles = e1\_value.get() \* 1.6 **🡨 🡨 🡨**

    t1.insert(END, miles)

* However, this throws an error. (See next page for solution).
* However, this threw an error, since **e1\_value.get()** *returns our number as a string*. When we initialize our variable **miles**, we need to convert this string into a **float** in order to get things to work:

def km\_to\_miles():

    print(e1\_value.get()) # for testing

    miles = **float**(e1\_value.get()) \* 1.6 **🡨 🡨 🡨**

    t1.insert(END, miles)

## Exercise: Create a Multi-Widget GUI:

Create a Python program that expects a kilogram input value and converts that value to grams, pounds, and ounces when the user pushes the Convert button.

Graphical user interface, text

Description automatically generated with medium confidenceThe program will look similar to the one in the following picture:

**Tip:**

1 kg = 1000 grams

1 kg = 2.20462 pounds

1 kg = 35.274 ounces

### My Attempt:

* After some initial trouble bonding 3 different functions to my **b1 Button**, I googled for a bit and decided to use a **lambda function**:
  + Button Command Parameter:
  + **command=lambda: [kg\_to\_grams(), kg\_to\_pounds(), kg\_to\_ounces()]**

from tkinter import \*

window = Tk()

def kg\_to\_grams():

    print(e1\_value.get()) # for testing

    grams = float(e1\_value.get()) \* 1000

    t1.insert(END, grams)

def kg\_to\_pounds():

    print(e1\_value.get()) # for testing

    pounds = float(e1\_value.get()) \* 2.20462

    t2.insert(END, pounds)

def kg\_to\_ounces():

    print(e1\_value.get()) # for testing

    ounces = float(e1\_value.get()) \* 35.274

    t3.insert(END, ounces)

l1 = Label(window, text="Kg")

l1.grid(row=0, column=0)

b1 = Button(window, text="Convert", command=lambda: [kg\_to\_grams(), kg\_to\_pounds(), kg\_to\_ounces()])

b1.grid(row=0, column=2)

e1\_value = StringVar()

e1 = Entry(window, textvariable=e1\_value)

e1.grid(row=0, column=1)

t1 = Text(window, height=1, width=20)

t1.grid(row=1, column=0)

t2 = Text(window, height=1, width=20)

t2.grid(row=1, column=1)

t3 = Text(window, height=1, width=20)

t3.grid(row=1, column=2)

window.mainloop()

* I also had to look up how to add the “Kg” to the top left like in the example, and found that I needed to use the **Label** object: **l1 = Label(window, text=“Kg”)**
* After that, it was just a matter of arranging the widgets so they’d end up in the right places, but I figured everything out in a little over 5 minutes:

Graphical user interface

Description automatically generated

## Solution: Create a Multi-Widget GUI:

* His solution, for comparison. It seems he used a single function to calculate all three conversions, and also added some functionality to clear out the text boxes if they’re filled. I like that second part, so I think I’ll add it to my code as well.

1. from tkinter import \*
3. # Create an empty Tkinter window
4. window=Tk()
6. def from\_kg():
7. # Get user value from input box and multiply by 1000 to get kilograms
8. gram=float(e2\_value.get())\*1000
10. # Get user value from input box and multiply by 2.20462 to get pounds
11. pound=float(e2\_value.get())\*2.20462
13. # Get user value from input box and multiply by 35.274 to get ounces
14. ounce=float(e2\_value.get())\*35.274
16. # Empty the Text boxes if they had text from the previous use and fill them again
17. t1.delete("1.0", END) # Deletes the content of the Text box from start to END
18. t1.insert(END, gram) # Fill in the text box with the value of gram variable
19. t2.delete("1.0", END)
20. t2.insert(END, pound)
21. t3.delete("1.0", END)
22. t3.insert(END, ounce)
24. # Create a Label widget with "Kg" as label
25. e1=Label(window,text="Kg")
26. e1.grid(row=0,column=0) # The Label is placed in position 0, 0 in the window
28. e2\_value=StringVar() # Create a special StringVar object
29. e2=Entry(window, textvariable=e2\_value) # Create an Entry box for users to enter the value
30. e2.grid(row=0,column=1)
32. # Create a button widget
33. # The from\_kg() function is called when the button is pushed
34. b1=Button(window,text="Convert", command=from\_kg)
35. b1.grid(row=0,column=2)
37. # Create three empty text boxes, t1, t2, and t3
38. t1=Text(window, height=1,width=20)
39. t1.grid(row=1,column=0)
41. t2=Text(window, height=1,width=20)
42. t2.grid(row=1,column=1)
44. t3=Text(window, height=1,width=20)
45. t3.grid(row=1,column=2)
47. # This makes sure to keep the main window open
48. window.mainloop()

# Section 24: Interacting with Databases:

## How Python Interacts with Databases #sql:

*Note: Resources for this lecture include Sqlite3 Documentation and Psycopg Documentation*.

* SQLite and PostgreSQL are different in that SQLite is not a client-server database; instead it is embedded into the end program.
* All of the data in his example BookStore app are stored in a **.db filetype**. This makes SQLite portable as long as another user has SQLite installed.
* PostgreSQL would be more appropriate for web applications.
* The library to work with an SQLite database is **sqlite3**.
* The library to work with a PostgreSQL database is **psycopg2**.

## Connecting to an SQLite Database with Python:

* SQLite3 is a built-in Python library, so you don’t need to install it.
* Now, the standard process for creating a database consists of 5 steps:
  + First you connect to the database.
  + Second you create a cursor object; the cursor object is like a pointer to access rows from a table for the database.
  + Third is you apply an SQL query; you may want to insert data into the database or select data from a table in the database.
  + Fourth you commit your changes to the database.
  + Fifth, you close the connection.

import sqlite3

conn = sqlite3.connect("lite.db") **🡨 🡨 🡨**

* You create a variable **conn** and you pass in your database file (**“lite.db”** here). If you don’t have an existing database file with that name, this line will create one for you and a connection will be established. If you do have a database with this name, a connection will be established to the existing database.
* You then create a cursor object with **curr=conn.cursor()**, then use that cursor to **execute** some SQL code **“CREATE TABLE store (item TEXT, quantity INTEGER, price REAL)”**.
* We then want to *commit* these changes to the database with **conn.commit()**, then *close the connection* with **conn.close()**.

import sqlite3

conn = sqlite3.connect("lite.db")

cur=conn.cursor()

cur.execute("CREATE TABLE store (item TEXT, quantity INTEGER, price REAL)")

conn.commit()

conn.close()

* Executing our code as-is creates the **lite.db** file in our directory, filled with the information we just committed.
* If we run the program again now, we get an error because the *table already exists*. To fix this we just need to apply a simple trick by *adding some code into our SQL code*:
  + Add **“IF NOT EXISTS”** before the table name “**store**”:

import sqlite3

conn = sqlite3.connect("lite.db")

cur=conn.cursor()

cur.execute("CREATE TABLE **IF NOT EXISTS** store (item TEXT, quantity INTEGER, price REAL)")

conn.commit()

conn.close()

* Now we want to add some data to our SQL table by adding the following line underneath our **(“CREATE TABLE…”)** line:

cur.execute("INSERT INTO store VALUES ('Wine Glass', 8, 10.5)")

* Now if we wanted to insert another item, *we could* insert a similar line below that, but then we’d get a duplicate of **‘Wine Glass’**. So what we could do in this case is, we could use a ***function*** to wrap around our ***separate SQL statements***.

import sqlite3

def create\_table(): **🡨 🡨 🡨**

    conn = sqlite3.connect("lite.db")

    cur=conn.cursor()

    cur.execute("CREATE TABLE IF NOT EXISTS store (item TEXT, quantity INTEGER, price REAL)")

    conn.commit()

    conn.close()

def insert(item, quantity, price): **🡨 🡨 🡨**

    conn = sqlite3.connect("lite.db")

    cur=conn.cursor()

    cur.execute("INSERT INTO store VALUES (?, ?, ?)", (item, quantity, price))

    conn.commit()

    conn.close()

insert("Water Glass", 10, 5) **🡨 🡨 🡨**

insert("Coffee Cup", 10, 5) **🡨 🡨 🡨**

* Now you may want to see the data that you’re inserting, so let’s create a function for that. To do this, we use SQL’s common “SELECT \* FROM” syntax:

def view():

    conn = sqlite3.connect("lite.db")

    cur = conn.cursor()

    cur.execute("SELECT \* FROM store") **🡨 🡨 🡨**

    rows = cur.fetchall() **🡨 🡨 🡨**

    conn.close()

    return rows **🡨 🡨 🡨**

print(view()) **🡨 🡨 🡨**

* This will use SQL syntax to **SELECT \* FROM store**, then use sqlite3 syntax to set a variable **rows = cur.fetchall()**, then return the variable rows, then print out the function’s return value with **print(view())**. Note that this returns a Python ***list***.
  + Returns “**[('Wine Glass', 8, 10.5), ('Water Glass', 10, 5.0), ('Coffee Cup', 10, 5.0), ('Coffee Cup', 10, 5.0)]**”. We ended up with a duplicate of ‘Coffee Cup’ because we left in the “insert” function when we ran the program again.
* Full code, next page:

**Full Lecture Code:**

import sqlite3

def create\_table():

    conn = sqlite3.connect("lite.db")

    cur = conn.cursor()

    cur.execute("CREATE TABLE IF NOT EXISTS store (item TEXT, quantity INTEGER, price REAL)")

    conn.commit()

    conn.close()

def insert(item, quantity, price):

    conn = sqlite3.connect("lite.db")

    cur = conn.cursor()

    cur.execute("INSERT INTO store VALUES (?, ?, ?)", (item, quantity, price))

    conn.commit()

    conn.close()

insert("Coffee Cup", 10, 5)

def view():

    conn = sqlite3.connect("lite.db")

    cur = conn.cursor()

    cur.execute("SELECT \* FROM store")

    rows = cur.fetchall()

    conn.close()

    return rows

print(view())

## (SQLite) Selecting, Inserting, Deleting, and Updating SQL Records:

* Now we’re going to create functions for deleting and updating SQL records.
* We started by copy/pasting our **view()** function because we’re going to tweak it and reuse most of its code. We’re going to *delete* the row that contains “Wine Glass”. Since we’re making changes, we want to make sure to **.commit()** those changes to our database:

def delete(**item**): **🡨 🡨 🡨**

    conn = sqlite3.connect("lite.db")

    cur = conn.cursor()

    cur.execute("DELETE FROM store WHERE item=**?**", (**item**)) **🡨 🡨 🡨**

    conn.**commit**() **🡨 🡨 🡨**

    conn.close()

* We then ran **delete(“Wine Glass”)** along with the whole program, but we got an error. It turns out that **(item)** needed a trailing comma or else you get an **sqlite3.ProgrammingError: “Incorrect number of bindings supplied. The current statement uses 1, and there are 10 supplied”**:

def delete(item):

    conn = sqlite3.connect("lite.db")

    cur = conn.cursor()

    cur.execute("DELETE FROM store WHERE item=?", (item**,**)) **🡨 🡨 🡨**

    conn.commit()

    conn.close()

delete("Wine Glass")

* Adding this comma fixes the error and allows “Wine Glass” to be deleted from the **store** table. **Note** that this kind of error happens with **SQLITE**, but *may not be true of other types of databases*.
* We’re now going to add another function **update()**. We want to change the *quantity* of ‘Water Glass’ from *10* to ***11***:

def update(quantity, price, item):

    conn = sqlite3.connect("lite.db")

    cur = conn.cursor()

    cur.execute("UPDATE store SET quantity=?, price=? WHERE item=?", (quantity, price, item))

    conn.commit()

    conn.close()

update(11, 6, "Water Glass")

* Note that when we have more than one parameter in our **.execute()** method, we don’t need the trailing comma.
* Now when we run the code, it returns our updated values for “Water Glass”: (‘Water Glass’, 11, 6.0).
* Note that it could be more useful to use an **ID** in this situation rather than the **item name**. To do this, we’d want to change the table at the beginning and add a **PRIMARY KEY** that auto-increments. However, we’re going to learn how to do this in the next section of the course.

## PostgreSQL Database with Python:

* In this next lecture, we’re going to use the same script as the previous lectures, but we’re going to modify it so that it’s compatible/interactive with PostgreSQL databases. Luckily most the code is the same with some slight changes. We’ll also be using a library called **psycopg2**. This isn’t a built-in library, so we’ll need to install both that and **PostgreSQL**.
* We downloaded and ran the setup .exe.
  + During setup, we were assigned the *superuser name* **postgres**, and I chose the same *password* as **postgres123**.
* It also offered to download various extensions and drivers, we just kind of chose some spatial one at random. These can probable be added later by searching “**Stack Builder**” in the Windows search bar. We can also find “**pgAdmin**” and “**Application Stack Builder**” instead our PostgreSQL folder.
* However, since we want to access PostgreSQL through Python, we don’t need to use any of these options. The way we access it through Python is by ***installing* pscyopg2** by running:
  + **pip install psycopg2**
  + In older versions (this issue didn’t crop up for me), you may get an error/warning saying that “psycopg is written in C, so you need a C compiler” in Windows. They must have fixed this after the lecture was filmed.
  + He noted after this that you can install Visual Studio to get around this, and I’ve been doing this whole course in VSCode, so maybe that’s why it worked.
  + Second solution is to use pre-compiled Python libraries. You can find them through a Google search, download them, and use them. He put his downloaded .whl file into the same directory as the Python scripts we’re working on.
* In the next lecture, we’ll actually use all this.

## (PostGreSQL) Selecting, Inserting, Deleting, and Updating SQL Records:

*Note: Resources for this lecture include Sqlite3 Documentation, Psycopg2 Documentation, and PostgreSQL Documentation*.

* In this lecture, we’re going to go through our previous code and replace *only a few lines* in order to get it to work with PostgreSQL.
* The main difference is that the main database that we’ll be working with *will not be stored as a .db file*. It will be a **database embedded in our PostgreSQL installation**. This requires there to be an existing database, and PostgreSQL comes with a database called **Postgres**, so we can just pass the database there. Or, you can create your own database:
  + To create a new database, we go into **pgAdmin**.
  + Once open, pgAdmin lists our **servers** and our **default database (Postgre)**.
  + Either way, you *need to* **connect to your database** and input your admin password.
  + We ***created a new database*** (“**database1**”), then closed pgAdmin. Now we go back to Python.
* First off we changed our ***import*** statement from sqlite3 to **psycopg2**. We also did a ***batch-replace*** of all mentions of sqlite3 to **psycopg2**. Must of the rest of the code/syntax will remain the same due to commonalities between SQL.
* We also replaced all mention of “lite.db” with:
  + **(“dbname=’database1’ user=’postgres’ password= ‘postgres123**’ **host=’localhost’ port=’5432’”)**

import psycopg2

def create\_table():

    conn = psycopg2.connect("dbname='database1' user='postgres' password='postgres123' host='localhost' port='5432'")

    cur = conn.cursor()

    cur.execute("CREATE TABLE IF NOT EXISTS store (item TEXT, quantity INTEGER, price REAL)")

    conn.commit()

    conn.close()

* To test it out, we ran **create\_table()** at the bottom, saved and ran the script. To check this table, we can go into **pgAdmin** and look for it in **database1** >>> **schema** >>> **public** >>> **tables**.
* We then copy/pasted our new connection string into all the locations where “lite.db” previously was.
* We can also replace all the “?” placeholders from sqlite3 with **string formatting: ‘%s’**, followed by a tuple of the parameters:

def insert(item, quantity, price):

    conn = psycopg2.connect("dbname='database1' user='postgres' password='postgres123' host='localhost' port='5432'")

    cur = conn.cursor()

    cur.execute("INSERT INTO store VALUES ('%s', '%s', '%s')" % (item, quantity, price))

    cur.execute("INSERT INTO store VALUES (%s, %s, %s)" % (item, quantity, price))

    conn.commit()

    conn.close()

* + However, he noted that this is risky because it makes the database vulnerable to SQL injection attacks from hackers.
  + An alternative is to pass our parameters a second variable to the **.execute** method:

    #cur.execute("INSERT INTO store VALUES ('%s', '%s', '%s')" % (item, quantity, price))

    cur.execute("INSERT INTO store VALUES (%s, %s, %s)", (item, quantity, price))

* Now we’ll look at the **view()** function, then the **delete()** function. With slight adjustments, they work exactly the same as they did with sqlite3. He accidentally inserted 3 copies of “Orange”, so he ran **delete(“Orange”)** and it got rid of all rows containing “Orange”.
* Next up is **update()**. Same, same.

# Section 25: App 5: GUI Apps and SQL: Build a Book Inventory Desktop GUI Database App:

## Demo of the Book Inventory App:

* He started off by showing his .exe file for this section, **BookStore.exe**. In the same directory was an SQLite3 .db file, **lite1.db**, so it seems like we’ll be using that to start with.
  + This will be the first .exe file I’ve ever created, so that’s exciting.
* BookStore.exe was created in **tkinter** for the GUI and **SQLite3** for the backend.
* It contains four entry fields:
  + **Title**
  + **Author**
  + **Year**
  + **ISBN**
* Below that, there’s a **text box** that *selects*/*displays* books from the database, and six buttons:
  + **View All**
  + **Search Entry**
  + **Add Entry**
  + **Update Selected**
  + **Delete Selected**
  + **Close**

## Designing the User Interface:

* We want to start by defining some requirements for the GUI.
* **Requirements:** We want our program to be able to **show a list** of current records, so when we press “**View All**”, the current list of books is show in a text box. We also want to be able to **Search** for an entry, **Add** a new entry, **Update** an existing entry, **Delete** a current entry, and **Close** the window. These are our **requirements**.
* **Backend:** Now if we want we can choose to start *writing the* **backend**, so we can write a function that **selects** all the data in the database and return it in text. This fulfills the **View All** button. Other functions can be written to support the other buttons, and once this is complete we can start writing the frontend GUI so that a user can use these buttons.
* **Frontend:** Or, we can start *writing the* **frontend** first. So we build the **GUI** and place the buttons, but since we haven’t written backend functions yet, these buttons won’t do anything. Once the GUI is complete, we can write the backend to support the buttons and functionality of the program.
* Graphical user interface

  Description automatically generatedIn our case, we’re going to *start with the* **frontend GUI** first and then we’re going to build the backend after. We’ll build a GUI that will do nothing for a while, until we connect it to the backend.
* Note: Above we start off our program with some human-readable text outlining what our program should be able to do. On the left is a simple graphical representation of some of the features we might want to add to our program, such as the four **entry fields** up top, the **list-box** where our text list of books will be displayed, a **scrollbar**, and our **function buttons**.
  + Having a sketch/drawing of what we want our GUI to look like is important to help us visualize both our finished product, and how we might go about giving our program the required functionality.

## Coding the Frontend Interface:

* ![A picture containing text, scoreboard, black

  Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TaMRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjEwOjI0IDEwOjA2OjAzAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMyMAAAkpIAAgAAAAMyMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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59Jv8Avg/4UWD2kP5ilJ938a6aM/8AEijFYj6Rf7f+PSb/AL4P+FdCtrP/AGOsfkybx1XBzXhZsnyQ9T9T4BqQ9ti9f+XbOUk+831ptX20e+LMfsk2M/8APM/4Un9jXv8Az6T/APfB/wAK9qldQVz8yrVYe0lr1KoxijirX9k3/wDz6Tf98Gj+yb//AJ9Jv++DVmPtIdyrxRxVr+yb/wD59Jv++DR/ZN//AM+k3/fBoD2kO5V4o4q1/ZN//wA+k3/fBo/sm+/59Jv++DQHtIfzFXijirX9k33/AD6Tf98Gj+yb7/n0m/74NAe0h/MVeKOKtf2Tff8APpN/3waP7Jvv+fSb/vg0B7SH8xV4o4q1/ZN9/wA+k3/fBo/sm/8A+fSb/vg0B7SHcq8UcVa/sm//AOfSb/vg0f2Tf/8APpN/3waA9pDuVeKOKtf2Tf8A/PpN/wB8Gj+yb/8A59Jv++DQHtIdyrxSHtVz+yb7/n0m/wC+DR/ZN9/z6Tf98GjUPaQ7lnw//wAfAqXxMP3qf7tP0XTbuGYb7aRR/tKRU3iDT7meVfKgkcY/hUmvnOV/2mvQ/YaVSL4Kq3f20c0aeOgq0dIvv+fSf/vg0LpN9/z6zf8AfB/wr6aSasfjUakbblXijirX9k33/PpN/wB8H/Cj+yb7/n0m/wC+DUWNPaQ7lXAo4q1/ZN9/z6Tf98Gj+yb7/n0m/wC+D/hRYPaQ7lNsYp8f3R9asf2Tff8APpP/AN8H/CnJpN8Fx9lm6/3D/hT6B7SF9ybQ8fbFqfXv9atLpOn3cN0rPbyoPVlIqxrWn3U0mUt5WH+ypNeBX/5GMfQ/YMDUh/qVV1+2c+3Wk4q42lX3/PrN/wB8Gm/2Tff8+k3/AHwa94/H/aQ7lXijirX9k33/AD6Tf98Gj+yb7/n0m/74NFg9pDuVeKOKtf2Tff8APpN/3waP7Jvv+fSb/vg0WD2kO5V4o4q1/ZN9/wA+k3/fBo/sm+/59Jv++DRYPaQ7lXijirX9k33/AD6Tf98Gj+yb7/n0m/74NFg9pDuVeKOKtf2Tff8APpN/3waP7Jvv+fSb/vg0WD2kO5V4o4q1/ZN9/wA+k3/fBo/sm+/59Jv++DRYPaQ7lXijirX9k33/AD6Tf98Gj+yb7/n0m/74NFg9pDuVeKOKtf2Tff8APpN/3waP7Jvv+fSb/vg0WD2kO5V4o4q1/ZN9/wA+k3/fBo/sm+/59Jv++D/hRYPaQ7lXijjirX9k33/PpN/3wf8ACl/sm+/59Jv++DRZh7WHck8Pt/pwFSa3/r37/NU2h6bdw3oeS3ljTuzKQKfrGm3U0rPHbyyJu+8qkivnnG2Yr0P1rDVIvg2bv9tmFS8Vb/sm97Wk3/fJ/wAKT+yb7/n0m/74NfQ2PyX2sO5V4pKt/wBk33/PpN/3waX+yb7p9km/74NAKpDualj/AMinef8AXQf0rnB94/Wupt7We38K3nmxSId+fmGPSuVDDcee9U9jnw7V5a9SSiiioO4KKKKBBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAIaGJCkjrS0jLTMppto04fFmqQxJGtxtCjHQGpP+Ev1X/n6P8A3wtY+zFLincPYU2rtGt/wmGq/wDP0f8Av2K6DRtavLi1Jkmy3X7oriOK6bQ3X7LjNeLmz5qKS7n6T4f0qVPNm7fZZBfeKNRt7h1juOM/3F/wqD/hLdU/5+f/ABxf8Ko6l/x9N9arba9SjL91H0Ph8yoU5Y2s2vtM1/8AhLNT/wCfn/xxf8KP+Es1P/n5/wDHF/wrI20ba25jzvq1Lsa//CWan/z8/wDji/4Uf8JZqf8Az8/+OL/hWRto20XYfVqXY1/+Es1P/n5/8cX/AAo/4SzU/wDn5/8AHF/wrI20baLsPq1Lsa//AAlmp/8APz/44v8AhR/wlmp/8/P/AI4v+FZG2jbRdh9WpdjX/wCEs1P/AJ+f/HF/wo/4SzU/+fkH/gC/4VkbaNtF2NYelfY1W8WarsOLkf8AfC/4V0Vprl1/Y4keb96e+wYrh2X5a6eIj+xUFeFm0vch6n6rwDQo+2xaa/5dsozeLtU8xsXPGf7i/wCFM/4S7Vf+fg/98L/hWXIv7w59aTAr2oSvFH5diMPTVaSt1Nf/AIS7Vf8An5/8cX/Ck/4S7Vf+fn/xxf8ACsnbRtq7k/V6XY1v+Eu1X/n5/wDHF/wo/wCEu1X/AJ+f/HF/wrJ20baLh9Xo9jW/4S7Vf+fn/wAcX/Cj/hLtV/5+R/3wv+FZO2jbRcTw9Lsa3/CXar/z8j/vhf8ACj/hLtV/5+R/3wv+FZO2jbTuhfVqXY1v+Eu1X/n5H/fC/wCFH/CXar/z8j/vhf8ACsnbRtoug+rUuxrf8Jdqv/Pz/wCOL/hR/wAJdqv/AD8/+OL/AIVk7aNtK41h6XY1v+Eu1X/n5/8AHF/wo/4S7Vf+fn/xxf8ACsnbRtouP6vR7Gt/wl2q/wDPz/44v+FH/CXar/z8/wDji/4Vk7aNtFw+r0exrf8ACXar/wA/P/ji/wCFH/CXar/z8D/vhf8ACsnbRtov0Jlh6VnZHS6T4kv7mZBLPuB4OEX/AAqx4h8QXdrInkTFeOflFYuhqPOHNWPEhDSJ34r5ycmsyi12P1zC0qf+pVWLX20Q/wDCXap/z8/+OL/hS/8ACXar/wA/P/ji/wCFZOBijbX00puTufkMcPTtsa3/AAl2q/8APz/44v8AhR/wl2q/8/P/AI4v+FZO2jbUXZf1en2Nb/hLtV/5+f8Axxf8KP8AhLtV/wCfn/xxf8KydtG2i7D6vT7Gt/wl2q/8/P8A44v+FN/4SzVP+fj/AMhr/hWXtFBVcdf0p3M5YeldaHRaJ4k1G41FY5rjdHjP3F/wq1r3ie9t5AsE+0f7i/4Vh+H1H9oKal1zDTGvArS/4UYvyP1vB0qf+ptSNvtijxdqv/PwP++F/wAKP+Eu1X/n5H/fC/4Vk7aNte7c/KPq9Hsa3/CW6r/z8j/vhf8ACj/hLNU/5+B/3wv+FZO2jbTuw+r0uiNb/hLNU/5+B/3wv+FH/CWap/z8D/vhf8KydtG2i7D6vT7Gt/wlmqf8/A/74X/Cj/hLNU/5+B/3wv8AhWTto20XYfV6fY1v+Es1T/n4H/fC/wCFH/CWap/z8D/vhf8ACsnbRtouw+r0+xrf8JZqn/PwP++F/wAKP+Es1T/n4H/fC/4Vk7aNtF2H1en2Nb/hLNU/5+B/3wv+FH/CWap/z8D/AL4X/CsnbRtouw+r0+xrf8JZqn/PwP8Avhf8KP8AhLNU/wCfgf8AfC/4Vk7aNtF2H1en2Nb/AISzVP8An4H/AHwv+FH/AAlmqf8APwP++F/wrJ20baLsPq9Psa3/AAlmqf8APwP++F/wo/4SzVP+fgf98L/hWTto20XYfV6fY1v+Et1T/n4H/fC/4Un/AAl2rf8APz/44KyttG0VpFuxnLD0ux0ej+JtRvLwRTTblPONgqzrniW9tZBHbzbEx02r1rD8P8akpJxU2ujdMSTXhVn/AMKMWux+uYOnB8GVIW+2A8XaqP8AluP++F/wpf8AhLtV/wCfgf8AfC/4VkbaNtezzM/KPq9LqjX/AOEu1T/n4H/fC/4Uf8Jdqn/PwP8Avhf8KyNtG2i7F9XpdEXNQ1y+1SER3FwXXrtAxWekYU8GpNopdoFK4ezhHZBRS5pKRYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFI1LRQA3P51btr57ddo6VWHXpS1nKnGWkkdOFxNbBz9rQlZhI7SyFvekpelJVxioqyMZylOTlJ3uFFFFMgKKKKACiiigAooooAKKKKACra6g62/ldqqUVlUpRq25jvwmOr4FydCVuZWfoGTuJNLxxxSUVoklsee05O8ndhRRRTGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABS+9JRT8w6WJbe4a3bK066umumBYnioKKxdGDnznf9exH1d4VStB9A7Diiiitjz0FFFFIYUUUUAFDY29KKX0pitdofbSG1kDqeaW4uGuGJbNR0lYSpQlP2nU74Y3ERw31VStDcKKKK3OIKKKKQgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACkYUtLVKTjqJrVNEltObeQOOtFzdNcNk81HSVlKnGU+fqd8cbXjhvqsZWhvYKKKK0OIKKKKQgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD//Z)To put widgets in a GUI using tkinter, we can use either the **.pack()** method or the **.grid()** method. Since we’ll be using the .grid() method, it’s a good idea to draw an actual grid on our sketch of the GUI. This way we have an idea of which row number and column number to pass to our widgets:
* At this point he decided to delete the **docstring** because we don’t really need it for our purposes, and it saves space on our screen.

### Labels:

* So we start off by importing ALL from tkinter (**from tkinter import \***), and then we create our window, **window=Tk()**. From there, we create our four **label objects**:

from tkinter import \*

window = Tk() **🡨 🡨 🡨 Create window**

l1 = **Label**(window, text="**Title**") **🡨 🡨 🡨 Create labels**

l1.grid(row=0, column=0)

l2 = **Label**(window, text="**Author**") **🡨 🡨 🡨**

l2.grid(row=0, column=2)

l3 = **Label**(window, text="**Year**") **🡨 🡨 🡨**

l3.grid(row=1, column=0)

l4 = **Label**(window, text="**ISBN**") **🡨 🡨 🡨**

l4.grid(row=1, column=2)

window.mainloop()

* Running our Python script at this point yields a small window with a two-by-two grid showing just our four labels.

### Entries:

* Next up, we add our **entries**, but first we need to create a ***StringVar*** special object to pass to our ***textvariable*** argument in our **Entry()** function:

title\_text = StringVar() **🡨 🡨 🡨 StringVar**

e1=Entry(window, textvariable=title\_text) **🡨 🡨 🡨 pass StringVar to Entry**

e1.grid(row=0, column=1)

author\_text = StringVar()

e2=Entry(window, textvariable=author\_text) **🡨 🡨 🡨**

e2.grid(row=0, column=3)

year\_text = StringVar()

e3=Entry(window, textvariable=year\_text) **🡨 🡨 🡨**

e3.grid(row=1, column=1)

isbn\_text = StringVar()

e4=Entry(window, textvariable=isbn\_text) **🡨 🡨 🡨**

e4.grid(row=1, column=3)

### Listbox:

* Next is the **Listbox**. We need to create our **list1** Listbox object, and we want to use the ***rowspan*** and ***columnspan*** arguments to make it span several rows and columns, to get everything in our grid to line up nicely.
  + We also want to create a **scrollbar** object to the right of our Listbox. To do this, we create our scrollbar object, and *then we tell our scrollbar and our Listbox about each other so they can interact*:

list1 = Listbox(window, height=6, width=35) **🡨 🡨 🡨 Create listbox**

list1.grid(row=2, column=0, rowspan=6, columnspan=2)

sb1 = Scrollbar(window) **🡨 🡨 🡨 Create scrollbar**

sb1.grid(row=2, column=2, rowspan=6)

list1.configure(yscrollcommand=sb1.set) **🡨 🡨 🡨 Configure the two together**

sb1.configure(command=list1.yview) **🡨 🡨 🡨**

### Buttons:

* Now we just need to add our six button widgets to the bottom-right:

b1 = Button(window, text="View All", width=12, <command=>) **🡨 🡨 🡨**

b1.grid(row=2, column=3)

b2 = Button(window, text="Search Entry", width=12)

b2.grid(row=3, column=3)

b3 = Button(window, text="Add Entry", width=12)

b3.grid(row=4, column=3)

b4 = Button(window, text="Update Selected", width=12)

b4.grid(row=5, column=3)

b5 = Button(window, text="Delete Selected", width=12)

b5.grid(row=6, column=3)

b6 = Button(window, text="Close", width=12)

b6.grid(row=7, column=3)

* To get these buttons to work, we’d need to add a **command=** parameter, but for now we’re just trying to get the buttons to display. The command= parameter will used later when we attach our GUI to the **backend**.
* In the next lecture, we’ll code the **backend** and then we’ll connect the GUI to that.

## Coding the Backend:

* So now we have our GUI. Now we need to create functions for all of its buttons, and connect it to our SQL database. We’re going to create this with SQLite3, and we need to create a table.
* In this case, we’re going to create a new script, **backend.py**, and then import that into script1.py. We’re also going to rename script1.py to **frontend.py**.
  + Once we have some functions in backend.py, we can attach **command=** variables to our GUI buttons using the syntax “**command=backend.**<etc>”.
* All of our functions are going to be very similar to our SQLite3 script from the last section, but with **title**, **author**, **year**, and **isbn** instead of things like price and quantity.

def search(title="", author="", year="", isbn=""): **🡨 🡨 🡨 need empty strings**

    conn = sqlite3.connect("books.db")

    cur = conn.cursor()

    cur.execute("SELECT \* FROM book WHERE title=? OR author=? OR year=? OR isbn=?", (title, author, year, isbn))

    rows = cur.fetchall()

    conn.close()

    return rows

def delete(id):

    conn = sqlite3.connect("books.db")

    cur = conn.cursor()

    cur.execute("DELETE FROM book WHERE id=?", (id,)) **🡨 🡨 🡨 need trailing comma**

    conn.commit()

    conn.close()

* Note that in the **search()** function we need to pass some *empty strings as defaults* to prevent an error. This is because our **.execute()** method *expects* four parameters.
* Remember also that when passing a tuple of *one parameter* such as **id** (as is the case in the **delete()** function), we need a trailing comma.
* Once we have all our functions (**connect()**, **insert()**, **view()**, **search()**, **delete()**, and **update()**) we can work on connecting these functions to our GUI buttons.
* Full **backend.**py code follows:

import sqlite3

def connect():

    conn = sqlite3.connect("books.db")

    cur = conn.cursor()

    cur.execute("CREATE TABLE IF NOT EXISTS book (id INTEGER PRIMARY KEY, title TEXT, author TEXT, year INTEGER, isbn INTEGER)")

    conn.commit()

    conn.close()

def insert(title, author, year, isbn):

    conn = sqlite3.connect("books.db")

    cur = conn.cursor()

    cur.execute("INSERT INTO book VALUES (NULL, ?, ?, ?, ?)", (title, author, year, isbn))

    conn.commit()

    conn.close()

def view():

    conn = sqlite3.connect("books.db")

    cur = conn.cursor()

    cur.execute("SELECT \* FROM book")

    rows = cur.fetchall()

    conn.close()

    return rows

def search(title="", author="", year="", isbn=""):

    conn = sqlite3.connect("books.db")

    cur = conn.cursor()

    cur.execute("SELECT \* FROM book WHERE title=? OR author=? OR year=? OR isbn=?", (title, author, year, isbn))

    rows = cur.fetchall()

    conn.close()

    return rows

def delete(id):

    conn = sqlite3.connect("books.db")

    cur = conn.cursor()

    cur.execute("DELETE FROM book WHERE id=?", (id,))

    conn.commit()

    conn.close()

def update(id, title, author, year, isbn):

    conn = sqlite3.connect("books.db")

    cur = conn.cursor()

    cur.execute("UPDATE book SET title=?, author=?, year=?, isbn=? WHERE id=?", (title, author, year, isbn, id))

    conn.commit()

    conn.close()

connect()

## Connecting the Frontend with the Backend, Part 1:

* Now we need to connect our frontend GUI with our backend so that it can fetch our backend function outputs and output or change the desired data.
* The first thing we do in our **frontend.py** script is to add **import backend**. This will allow us to access the functions in backend.py.
* We’re going to start off by connecting the “**View All**” button to backend’s **view()** function. When we click this button, we want the backend function to *output a list* of our book data *into the* ***listbox***:

b1 = Button(window, text="View All", width=12, **command=view\_command**) **🡨 🡨 🡨**

b1.grid(row=2, column=3)

* + Note: When we pass commands to buttons, we leave out the parenthesis “()”. This is to prevent Python from executing the function; we want the function to execute *only when* the user presses the button.
* After adding this command, we need to go back to the top and write a function “**view\_command**” that will take the *output* of **backend.view** and print it to the **listbox**:

def view\_command(): **🡨 🡨 🡨**

    for row in backend.view():

        list1.insert(END, row)

* Note here that we used the argument **END** in our insert method. This causes items to be added to the end of the listbox.
* Graphical user interface, text, application

  Description automatically generatedRunning our **frontend.py** and clicking “**View All**” results in this:
* Our books in the listbox should be the same as when we were testing our the backend by printing them out in the console. However, at this point if we press “**View All**” multiple times, it just keeps adding the list over and over. We want it to clear out the listbox first thing:

def view\_command():

**list1.delete(0, END)** **🡨 🡨 🡨**

    for row in backend.view():

        list1.insert(END, row)

* Now we’ll work on the “**Search Entry**” button, which we want to return matching entries to the listbox. We’ll create a “**search\_command**” ***wrapper function*** for this similar to with the “View All” button.

b2 = Button(window, text="Search Entry", width=12, **command=search\_command**) **🡨**

b2.grid(row=3, column=3)

* + A **wrapper function** is especially useful in cases like this because we’ll be passing parameters to the function.
  + Our backend **search()** function has four parameters. We can’t put parenthesis in our **command=** parameter, so we put them in our wrapper function.
  + We’ll be getting these parameters from our **entry widgets**, such as **title\_text = StringVar()**, etc:

def search\_command():

    list1.delete(0, END)

    for row in backend.search(title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get()):

        list1.insert(END, row)

* Note that we used the **.get()** method to convert all our **StringVar()** variables into **strings**.
* Our GUI now allows us to search for books based on those four variables.
* Next up we want to work on the “**Add Entry**” button. This means that we’ll be calling the **insert(title, author, year, isbn)** function in the backend. This will be a simple function since we’re just going to *insert* the same four **.get()** strings as before:

def add\_command():

    backend.insert(title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get())

* And that’s it. Filling out entries in our GUI and selecting “**Add Entry**” will now add entries to our database in the backend. We tested by adding some entries:
* Graphical user interface, application

  Description automatically generatedGraphical user interface, application

  Description automatically generatedGraphical user interface, text, application

  Description automatically generatedIt would be good if, when an entry is added, it automatically populates in the listbox so that the user knows that it was successfully added:

def add\_command():

    backend.insert(title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get())

    list1.delete(0, END) **🡨 🡨 🡨**

    list1.insert(END, title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get()) **🡨 🡨 🡨**

* Almost there. The information populates the listbox, but it’s in the wrong format. We can fix this simply by passing the book information as a single **tuple**:

def add\_command():

    backend.insert(title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get())

    list1.delete(0, END)

    list1.insert(END, **(**title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get()**)**) **🡨 🡨 🡨**

## Connecting the Frontend with the Backend, Part 2:

* We still have a few buttons to work on: **Delete**, **Update**, and **Close**.
* First off, **Delete**. We need to think about what the user might expect to happen. Say we want to delete one of the rows: the entry should be deleted from the database, and the updated list of entries should populate the listbox.
  + As an aside, perhaps when they click on a row, they may want to see that same data populate in the **entries**. We’ll do that too.
* Going to look at the **backend**, the **delete(id)** function takes an **id** as its parameter. So when a user clicks on an item in the listbox, we want to *grab* that *id* and send it to the delete() function of the backend script.
* There is a **bind()** function in the tkinter library which is used to *bind* a function to a *widget event*. We’re going to *bind*a method to the *listbox widget* **list1**:
  + **list1.bind()**
  + This .bind() takes two arguments: an *event type* and a *function* that we want to bind to the event type:

list1.bind('<<ListboxSelect>>', get\_selected\_row)

* + Now we need to go up above and write our **get\_selected\_row** function at the beginning of our program:

def get\_selected\_row(event):

    index = list1.curselection()

    print(index)

* + We added a temporary **print** just so we can check what datatype this returns as. It returns a **tuple** such as **(2,)**.

def get\_selected\_row(event):

    index = list1.curselection()[0] **🡨 🡨 🡨**

    print(index)

* + Doing this instead…
  + …prints them out as simple integers, such as **2**. So we’re very close now. We can use the index to **.get()** the selected tuple from the database:

def get\_selected\_row(event):

    index = list1.curselection()[0]

    selected\_tuple = list1.get(index)

    print(selected\_tuple)

* + Now when we select items from our listbox, the tuple containing the item’s information is printed to the console.
* We can use all of this to pass the **id** of an item to the **delete(id)** function in the backend of the script.
* So we go down to our “**Delete Selected**” button code and add a wrapper function command:

b5 = Button(window, text="Delete Selected", width=12, command=delete\_command)

b5.grid(row=6, column=3)

* Now we go up top and add our wrapper function:

def delete\_command():

    backend.delete(get\_selected\_row()[0])

* However, if we run this as-is, we get an error because **get\_selected\_row()** is expecting an **event** argument. What we need in this case is to declare **selected\_tuple** as a ***global variable*** inside our **get\_selected\_row()** function. We also no longer need our return statement in the function:

def get\_selected\_row(event):

    global selected\_tuple **🡨 🡨 🡨**

    index = list1.curselection()[0]

    selected\_tuple = list1.get(index)

* We also want to modify our **delete\_command()** function to use **selected\_tuple**:

def delete\_command():

    backend.delete(selected\_tuple[0]) **🡨 🡨 🡨**

* We’re going to test this out by deleted our entry “**The Moon**”. However, at this stage we don’t see it disappear from the list unless we click “**View All**”, so we may want to change this to update the listbox instantly.
  + I ended up adding this just to my own code, as he didn’t address it at this stage. I reused some code from our **view\_command** wrapper function.
* Next up, we want to populate our entry fields whenever we select an item from the list. We can go ahead and write that functionality directly inside our **get\_selected\_row()** function:

def get\_selected\_row(event):

    global selected\_tuple

    index = list1.curselection()[0]

    selected\_tuple = list1.get(index)

    e1.delete(0, END)

    e1.insert(END, selected\_tuple[1])

    e2.delete(0, END)

    e2.insert(END, selected\_tuple[2])

    e3.delete(0, END)

    e3.insert(END, selected\_tuple[3])

    e4.delete(0, END)

    e4.insert(END, selected\_tuple[4])

* This inserts the indexed values from an item’s tuple into the desired **entry**:
* Graphical user interface, text, application

  Description automatically generated
* Next up, we need to update our “**Update Selected**” button. In our backend.py script, our **update()** function gets passed **id**, **title**, **author**, **year**, and **isbn**.
* The **update\_command** function will be similar to the delete one, which also got passed a variable (**id**). But this time, we’ll be passing a total of five variables, all indexes of **selected\_tuple**:

def update\_command():

    backend.update(selected\_tuple[0], ~~selected\_tuple[1], selected\_tuple[2], selected\_tuple[3], selected\_tuple[4])~~ **~~🡨 🡨 🡨~~**

* And of course we need to add **command=update\_command** down in the button definition. We tested out our new updating capabilities by changing an ISBN value, but we found that nothing was being updated. The reason for this is that we actually want to send **title\_text.get()**, etc to our backend **update()** function:

def update\_command():

    backend.update(selected\_tuple[0], **title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get()) 🡨 🡨 🡨**

* + Note: I noticed that, while my program functions correctly now, if I drag-select text in any of the entries, my console will say that there’s an “IndexError: tuple index out of range”. It doesn’t affect my program, so I’ll leave it alone for now, but it’s interesting to note.
* Now we just need to work on our “**Close**” button. For this, we just need to add **command=window.destroy** to the “Close” button’s parameters:

def update\_command():

    backend.update(selected\_tuple[0], **title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get()) 🡨 🡨 🡨**

* And it works.
* We may also want to add a title to our window:

# Create window

window = Tk()

# Gives window a title

window.wm\_title("BookStore")

* Graphical user interface, application

  Description automatically generatedAnd now our window has a title:
* And we’re finished.

### Full Frontend Code, Connected to Backend:

from tkinter import \*

import backend

# Creates function to get information from selecting items in listbox

# Also populates entry fields with selected listbox item's information

def get\_selected\_row(event):

    global selected\_tuple

    index = list1.curselection()[0]

    selected\_tuple = list1.get(index)

    # Inserts tuple index items into desired entry fields

    e1.delete(0, END)

    e1.insert(END, selected\_tuple[1])

    e2.delete(0, END)

    e2.insert(END, selected\_tuple[2])

    e3.delete(0, END)

    e3.insert(END, selected\_tuple[3])

    e4.delete(0, END)

    e4.insert(END, selected\_tuple[4])

# Wrapper functions for buttons:

# Creates wrapper function for "View All" button

def view\_command():

    list1.delete(0, END)

    for row in backend.view():

        list1.insert(END, row)

# Creates wrapper function for "Search Entry" button

def search\_command():

    list1.delete(0, END)

    for row in backend.search(title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get()):

        list1.insert(END, row)

# Creates wrapper function for "Add Entry" button

def add\_command():

    backend.insert(title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get())

    list1.delete(0, END)

    list1.insert(END, (title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get()))

# Creates wrapper function for "Delete Selected" button

def delete\_command():

    backend.delete(selected\_tuple[0])

    list1.delete(0, END)

    for row in backend.view():

        list1.insert(END, row)

# Creates wrapper function for "Update Selected" button

def update\_command():

    backend.update(selected\_tuple[0], title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get())

    list1.delete(0, END)

    for row in backend.view():

        list1.insert(END, row)

# Create window

window = Tk()

# Gives window a title

window.wm\_title("BookStore")

# Create labels

l1 = Label(window, text="Title")

l1.grid(row=0, column=0)

l2 = Label(window, text="Author")

l2.grid(row=0, column=2)

l3 = Label(window, text="Year")

l3.grid(row=1, column=0)

l4 = Label(window, text="ISBN")

l4.grid(row=1, column=2)

# Create entry fields/boxes

title\_text = StringVar()

e1=Entry(window, textvariable=title\_text)

e1.grid(row=0, column=1)

author\_text = StringVar()

e2=Entry(window, textvariable=author\_text)

e2.grid(row=0, column=3)

year\_text = StringVar()

e3=Entry(window, textvariable=year\_text)

e3.grid(row=1, column=1)

isbn\_text = StringVar()

e4=Entry(window, textvariable=isbn\_text)

e4.grid(row=1, column=3)

#Create listbox

list1 = Listbox(window, height=6, width=35)

list1.grid(row=2, column=0, rowspan=6, columnspan=2)

# Create scrollbar

sb1 = Scrollbar(window)

sb1.grid(row=2, column=2, rowspan=6)

# Configure listbox and scrollbar to interact

list1.configure(yscrollcommand=sb1.set)

sb1.configure(command=list1.yview)

list1.bind('<<ListboxSelect>>', get\_selected\_row)

# Create buttons

# After "backend.py" created, button commands can reference backend functions

b1 = Button(window, text="View All", width=12, command=view\_command)

b1.grid(row=2, column=3)

b2 = Button(window, text="Search Entry", width=12, command=search\_command)

b2.grid(row=3, column=3)

b3 = Button(window, text="Add Entry", width=12, command=add\_command)

b3.grid(row=4, column=3)

b4 = Button(window, text="Update Selected", width=12, command=update\_command)

b4.grid(row=5, column=3)

b5 = Button(window, text="Delete Selected", width=12, command=delete\_command)

b5.grid(row=6, column=3)

b6 = Button(window, text="Close", width=12, command=window.destroy)

b6.grid(row=7, column=3)

# Mainloop window

window.mainloop()

## Exercise: Fixing a Bug in Our Program:

* Sounds like this will address that IndexError I noted earlier.

#### **Exercise**

If you haven't already noticed, the program has a bug. When the listbox is empty and the user clicks the listbox, an IndexError is generated in the terminal:

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#### **Why does this error happen?**

Well, everything starts with the user clicking on the listbox. Clicking the listbox executes the following code:

list1.bind('<<ListboxSelect>>',get\_selected\_row)

That code calls the get\_selected\_row  function:

1. def get\_selected\_row(event):
2. global selected\_tuple
3. index=list1.curselection()[0]
4. selected\_tuple=list1.get(index)
5. e1.delete(0,END)
6. e1.insert(END, selected\_tuple[1])
7. e2.delete(0,END)
8. e2.insert(END, selected\_tuple[2])
9. e3.delete(0,END)
10. e3.insert(END, selected\_tuple[3])
11. e4.delete(0,END)
12. e4.insert(END, selected\_tuple[4])

Since the listbox is empty,  list1.curselection()  will be an empty list with no items. Trying to access the first item on the list with [0]  in line 3 will throw an error because there is no first item in the list.

Try to fix that bug. The next lecture contains the solution.

## Solution: Fixing a Bug in Our Program:

#### **Solution**

1. def get\_selected\_row(event):
2. try:
3. global selected\_tuple
4. index=list1.curselection()[0]
5. selected\_tuple=list1.get(index)
6. e1.delete(0,END)
7. e1.insert(END, selected\_tuple[1])
8. e2.delete(0,END)
9. e2.insert(END, selected\_tuple[2])
10. e3.delete(0,END)
11. e3.insert(END, selected\_tuple[3])
12. e4.delete(0,END)
13. e4.insert(END, selected\_tuple[4])
14. except IndexError:
15. pass

#### **Explanation**

The error was fixed by simply implementing a try  and except block. When the get\_selected\_row  function is called, Python will execute the indented block under try . If there is an IndexError, none of the lines under try  will be executed; the line under except  will be executed, which is pass. The pass  statement means "do nothing". Therefore, the function will do nothing when there's an empty listbox.

## Creating .exe and .app Executables from the Python Script:

* Our program now works well, and consists of three files: **frontend.py**, **backend.py**, and **books.db**. We can execute the scripts by running frontend.py in Python, but we want to wrap everything up in a standalone .exe file to be more user-friendly.
* This can be done whether it be on Windows, Mac, or Linux.
  + To do this, we run **pip install pyinstaller**.
* With **pyinstaller**, it’s incredibly easy to create .exe files from Python programs. To do so, we go to the console/terminal and run:
  + **pyinstaller frontend.py**
  + and that’s it. If we leave it like this, it will give us a **.exe** file if we’re running it on Windows, a **.app** file on Mac, and together with those files we’ll get a lot of other files. This can help us troubleshoot errors.
  + If we just want our single executable .exe (or .app) file, we pass another parameter:
    - **pyinstaller --onefile frontend.py**
  + In this form, we’ll still get a terminal or command line displayed in the background of our GUI, but we can prevent that with:
    - **pyinstaller --onefile --windowed frontend.py**
* Double-clicking our new .exe file will cause it to pop up in a window AND will create an empty **books.db** database file.
* In situations where you’d be working with an existing database, you’d want to give the user both the .exe file AND the existing database for the program to connect to.

# Section 26: Object-Oriented Programming (OOP):

## What is Object-Oriented Programming (OOP)?

* OOP is a way to organize code; one could easily just create a program using definitions, but using OOP helps to organize things.
* It’s generally accepted that if you use *more than two* functions in your code, you could benefit from using OOP.
* He opened the video with a screenshot of our **backend.py** program from the previous section. We should organize our callback functions into something called a **class**.
* Our object in this case is our *entire* **window** (tkinter) with its buttons and widgets. We can put all the attributes that define this object (window) such as the titles of buttons, the labels, and the callback functions, ***inside of a* class***.*
* We can start by putting the callback functions from **backend.py** *inside of a* **class**, and then we’re going to do the same to **frontend.py**.

## Using OOP in a Program, Part 1:

* We indented everything in **backend.py** and put it inside of a class:
  + **class Database:**
* We also changed our **connect()** function to an initialization function:
  + **def \_\_init\_\_():**
* We then went into **frontend.py** and replaced “import backend” with:
  + **from backend import Database**
  + then we added **database = Database()** below that.
  + We also had to go through frontend.py and replace all instances of “backend” with “**database**”, such as “backend.insert()” with “**database.insert()**”.
* Running the program as-is produces an error, saying “\_\_init\_\_() takes 0 positional arguments but 1 was given”. To fix this, we need to perform a trick in backend.py’s \_\_init\_\_():
  + **\_\_init\_\_(self):**
  + So we can name our database in the frontend.py, we also passed into **backend.py**:

    def \_\_init\_\_(self, db): **🡨 🡨 🡨**

        conn = sqlite3.connect(db) **🡨 🡨 🡨**

        cur = conn.cursor()

        cur.execute("CREATE TABLE IF NOT EXISTS book (id INTEGER PRIMARY KEY, title TEXT, author TEXT, year INTEGER, isbn INTEGER)")

        conn.commit()

        conn.close()

* + **\_\_init\_\_(self, db):**
  + Now in our **frontend.py**, we can name the database:

from tkinter import \*

from backend import Database

database = Database("books.db") **🡨 🡨 🡨**

* However, since we reference “books.db” in several places in backend.py, we need to add the **self** parameter to our functions in order to get our program to work.
* However, OOP is about more than just putting functions inside of classes, and so far we’re not fully leveraging the advantages of using classes. We can button these up more nicely; each function has some repeated actions, so we can leverage **inheritability**.

## Using OOP in a Program, Part 2:

* Since we want to keep the connection open while the **class Database** is in use, we can delete the **conn.close()** line in our **\_\_init\_\_** function.
* Since we’re staying connected to the database through our \_\_init\_\_ function, we can also delete the line **conn = sqlite3.connect(“books.db”)** in all of our other functions.
* We can also delete our cursor object line **cur = conn.cursor()**, because we’re creating that in our \_\_init\_\_ function.
* However, we’re still referencing the **cur** and **conn** variables in various functions, to .execute(), .commit(), and .close(). The **cur** and **conn** variables currently exist now only as local variables within the \_\_init\_\_ function.
  + In order to fix this, we need to and “**self.**” in front of several things, i.e. “**self.cur**” and “**self.conn**” in various places in the code.
  + Adding “self.” to the beginning of a *local variable* like this converts it into a “***attribute***” of the class object.

    def \_\_init\_\_(self, db):

**self**.conn = sqlite3.connect(db) **🡨 🡨 🡨**

**self**.cur = **self**.conn.cursor() **🡨 🡨 🡨**

**self**.cur.execute("CREATE TABLE IF NOT EXISTS book (id INTEGER PRIMARY KEY, title TEXT, author TEXT, year INTEGER, isbn INTEGER)") **🡨 🡨 🡨**

**self**.conn.commit() **🡨 🡨 🡨**

* We can also delete the **conn.close()** lines in all of our functions. We’ll deal with closing the database connection later. Deleting these lines prevents a **connection error** from happening when we use one of the functions and it closes the connection prematurely.
* Now we’re going to add a **close()** method as a function of its own. There’s another special method we can add to our class to do this: **\_\_del\_\_(self)**. This method will be called when the **frontend.py** script ***exits***, or when we exit out by clicking “Close” or the “X” corner button.

    def \_\_del\_\_(self):

        self.conn.close()

* He noted that there’s no standard way to write objects like this. We could also include a “**Commit**” button to our GUI and a “**commit()**” method to our backend, so that we can store all of the **self.commit()** commands in one place.
* He also noted that \_\_del\_\_ isn’t always used, and that you can usually get away with just using an \_\_init\_\_ function at the beginning. But in this case, it’s useful since you always want to close the connection at the end of using the program.
* He also noted that we can change our **Frontend** to be **Object-Oriented** with **classes** as well.

### Frontend with Object-Oriented Changes:

from tkinter import \*

from backend import Database

database = Database("books.db") **🡨 🡨 🡨**

# Creates function to get information from selecting items in listbox

# Also populates entry fields with selected listbox item's information

def get\_selected\_row(event):

    try:

        global selected\_tuple

        index = list1.curselection()[0]

        selected\_tuple = list1.get(index)

        # Inserts tuple index items into desired entry fields

        e1.delete(0, END)

        e1.insert(END, selected\_tuple[1])

        e2.delete(0, END)

        e2.insert(END, selected\_tuple[2])

        e3.delete(0, END)

        e3.insert(END, selected\_tuple[3])

        e4.delete(0, END)

        e4.insert(END, selected\_tuple[4])

    except:

        pass

# Wrapper functions for buttons:

def view\_command():

    list1.delete(0, END)

    for row in database.view():

        list1.insert(END, row)

def search\_command():

    list1.delete(0, END)

    for row in database.search(title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get()):

        list1.insert(END, row)

def add\_command():

    database.insert(title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get())

    list1.delete(0, END)

    list1.insert(END, (title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get()))

def delete\_command():

    database.delete(selected\_tuple[0])

    list1.delete(0, END)

    for row in database.view():

        list1.insert(END, row)

def update\_command():

    database.update(selected\_tuple[0], title\_text.get(), author\_text.get(), year\_text.get(), isbn\_text.get())

    list1.delete(0, END)

    for row in database.view():

        list1.insert(END, row)

window = Tk()

window.wm\_title("BookStore")

l1 = Label(window, text="Title")

l1.grid(row=0, column=0)

l2 = Label(window, text="Author")

l2.grid(row=0, column=2)

l3 = Label(window, text="Year")

l3.grid(row=1, column=0)

l4 = Label(window, text="ISBN")

l4.grid(row=1, column=2)

title\_text = StringVar()

e1=Entry(window, textvariable=title\_text)

e1.grid(row=0, column=1)

author\_text = StringVar()

e2=Entry(window, textvariable=author\_text)

e2.grid(row=0, column=3)

year\_text = StringVar()

e3=Entry(window, textvariable=year\_text)

e3.grid(row=1, column=1)

isbn\_text = StringVar()

e4=Entry(window, textvariable=isbn\_text)

e4.grid(row=1, column=3)

list1 = Listbox(window, height=6, width=35)

list1.grid(row=2, column=0, rowspan=6, columnspan=2)

sb1 = Scrollbar(window)

sb1.grid(row=2, column=2, rowspan=6)

list1.configure(yscrollcommand=sb1.set)

sb1.configure(command=list1.yview)

list1.bind('<<ListboxSelect>>', get\_selected\_row)

b1 = Button(window, text="View All", width=12, command=view\_command)

b1.grid(row=2, column=3)

b2 = Button(window, text="Search Entry", width=12, command=search\_command)

b2.grid(row=3, column=3)

b3 = Button(window, text="Add Entry", width=12, command=add\_command)

b3.grid(row=4, column=3)

b4 = Button(window, text="Update Selected", width=12, command=update\_command)

b4.grid(row=5, column=3)

b5 = Button(window, text="Delete Selected", width=12, command=delete\_command)

b5.grid(row=6, column=3)

b6 = Button(window, text="Close", width=12, command=window.destroy)

b6.grid(row=7, column=3)

window.mainloop()

### Backend with Object-Oriented Changes:

import sqlite3

class Database:

    def \_\_init\_\_(self, db):

        self.conn = sqlite3.connect(db)

        self.cur = self.conn.cursor()

        self.cur.execute("CREATE TABLE IF NOT EXISTS book (id INTEGER PRIMARY KEY, title TEXT, author TEXT, year INTEGER, isbn INTEGER)")

        self.conn.commit()

    def insert(self, title, author, year, isbn):

        self.cur.execute("INSERT INTO book VALUES (NULL, ?, ?, ?, ?)", (title, author, year, isbn))

        self.conn.commit()

    def view(self):

        self.cur.execute("SELECT \* FROM book")

        rows = self.cur.fetchall()

        return rows

    def search(self, title="", author="", year="", isbn=""):

        self.cur.execute("SELECT \* FROM book WHERE title=? OR author=? OR year=? OR isbn=?", (title, author, year, isbn))

        rows = self.cur.fetchall()

        return rows

    def delete(self, id):

        self.cur.execute("DELETE FROM book WHERE id=?", (id,))

        self.conn.commit()

    def update(self, id, title, author, year, isbn):

        self.cur.execute("UPDATE book SET title=?, author=?, year=?, isbn=? WHERE id=?", (title, author, year, isbn, id))

        self.conn.commit()

    def \_\_del\_\_(self):

        self.conn.close()

## Creating a Bank Account Class:

* We’re going to create a Bank Account app, **acc.py**, and a balance storage file, **balance.txt**.
* For simplicity, we’ll be working on only one account.
* We start by creating a **class Account**, then run our usual **\_\_init\_\_(self)** function at the beginning. We’re also inputting into our **balance.txt** file an initial value of **1000**.
* To create an **Account** object, we first want to pull the initial value from **balance.txt** into it.
* We read the data from balance.txt into a *temporary variable* “**file**”, and then set **self.balance = file.read()**, where **self.** Is the object and **balance** is the *instance variable*:

class Account:

    def \_\_init\_\_(self, filepath):

        with open(filepath, 'r') as file:

            self.balance = int(file.read())

* Now that we have our **\_\_init\_\_** function, but before we create a *withdraw* or *deposit* function, he says that he likes to start by ***calling*** the class to see if it works:

class Account:

    def \_\_init\_\_(self, filepath):

        with open(filepath, 'r') as file:

            self.balance = int(file.read())

account = Account("balance.txt") **🡨 🡨 🡨**

print(account)

* Running this returns “**<\_\_main\_\_.Account object at 0x0000022A761A4400>**” to the terminal, showing the memory storage location of the Account object.
  + **\_\_main\_\_** is the name assigned to the *module* by Python automatically.
  + If we open an *interactive shell* and run **from account import acc**, then the output gets renamed to: “**<account.acc.Account object at** {location}**>**”
    - Didn’t work on my end. Might be because I have my file structure set up or named differently.
    - In his version, “**acc**” is the name of the program (without its extension) and “**account**” is the name of the ***package***, which I think means the fact that he put all of this into a folder named “account” instead of “Bank\_Account\_Program”. I’ll try changing my folder name and see what happens.
      * Nope, didn’t work.
  + Short version: “**account**”= *package*, “**acc**” = *module*, “**Account**” = *class*.
* So far, we’ve printed out the ***object namespace***, as opposed to the ***balance***. To print out the balance, we do this:

class Account:

    def \_\_init\_\_(self, filepath):

        with open(filepath, 'r') as file:

            self.balance = int(file.read())

account = Account("balance.txt")

print(account.balance) **🡨 🡨 🡨**

* This returns “**1000**” to the terminal.
* Now we want to write our **withdraw** function, which will take *self*, an **amount** variable, and it will subtract that amount from *self.balance*:

    def withdraw(self, amount):

        self.balance = self.balance - amount

* We also would want to update our balance in our **balance.txt** file, and we could do that again with the **open()** function like we did it \_\_init\_\_.
  + However, it might be more constructive to create a ***separate method*** focused entirely on updating our **balance.txt** file.

    def deposit(self, amount):

        self.balance = self.balance + amount

* We create a similar **deposit** function:
* We then run a test where we withdraw **100** from our account and print out the *new balance*:

print(account.balance)

account.withdraw(100)

print(account.balance)

* This prints out **1000** and then **900** below that. However, if you run it again, you’ll notice that a *new object instance* is being created, and the same two numbers are printed out.
  + You don’t have 900 as a current balance in the beginning, you still have 1000. This is because the **balance.txt** file that’s being read from isn’t being updated.
  + We need to *write* the changes to the file if we want to keep these changes.

    def commit(self):

        with open(filepath)

* We’ll create a **commit** function:
* You’ll notice that we want to use a filepath similar to in our **\_\_init\_\_** function, but that variable **filepath** is local to the \_\_init\_\_ function and can’t be seen in this scope.
* One way around this is to pass a new path variable “**path**” into the **commit(self, path)** function. But that’s not the most elegant way to do things.

    def \_\_init\_\_(self, filepath):

        self.filepath = filepath **🡨 🡨 🡨**

        with open(filepath, 'r') as file:

            self.balance = int(file.read())

* Instead, we’ll make the **filepath** local variable in \_\_init\_\_ into an ***instance variable***:
* Now we can go back to our **commit** function and do this:

    def commit(self):

        with open(**self.filepath**, 'w') as file: **🡨 🡨 🡨**

            file.write(str(self.balance))

* We also need to ***call*** the **commit** method at the bottom in order to get it to actually update **balance.txt**:

account = Account("balance.txt")

print(account.balance)

account.withdraw(100)

print(account.balance)

**account.commit**() **🡨 🡨 🡨**

* Now the value updates!

### Bank Account, Full Code So Far:

class Account:

    def \_\_init\_\_(self, filepath):

        self.filepath = filepath

        with open(filepath, 'r') as file:

            self.balance = int(file.read())

    def withdraw(self, amount):

        self.balance = self.balance - amount

    def deposit(self, amount):

        self.balance = self.balance + amount

    def commit(self):

        with open(self.filepath, 'w') as file:

            file.write(str(self.balance))

account = Account("balance.txt")

print("Old balance: ", account.balance)

account.withdraw(100)

print("New balance: ", account.balance)

account.commit()

## Creating Classes Through Inheritance:

* **Inheritance**: Inheritance is the process of creating a new class out of a base class. It has all of the properties and methods of the base class, plus some of its own special properties.
* So we’ve created our **Account** class. Now, what if we want to transfer money from this bank account to another bank account? We would have to add a **transfer** method in the Account class.
* However, in the case he’s presenting, you can directly transfer money from your *checking account*, but not your *savings account*, so a **transfer** method would only make sense for a *checking account*.
* So one solution is to create a completely separate class.
* Or,

class Account:

    def \_\_init\_\_(self, filepath):

        self.filepath = filepath

        with open(filepath, 'r') as file:

            self.balance = int(file.read())

    def withdraw(self, amount):

        self.balance = self.balance - amount

    def deposit(self, amount):

        self.balance = self.balance + amount

    def commit(self):

        with open(self.filepath, 'w') as file:

            file.write(str(self.balance))

class Checking(Account): **🡨 🡨 🡨 syntax to inherit attributes**

    def \_\_init\_\_(self, filepath):

        Account.\_\_init\_\_(self, filepath)

    def transfer(self, amount): **🡨 🡨 🡨 special method**

        self.balance = self.balance - amount

checking = Checking("balance.txt")

checking.transfer(110)

print(checking.balance)

checking.commit()

* We can use **inheritance** to create a new **subclass**, “**Checking**”:
* We can also add unique variables to our subclass: suppose when you transfer money, it comes with a fee.

class Account:

    def \_\_init\_\_(self, filepath):

        self.filepath = filepath

        with open(filepath, 'r') as file:

            self.balance = int(file.read())

    def withdraw(self, amount):

        self.balance = self.balance - amount

    def deposit(self, amount):

        self.balance = self.balance + amount

    def commit(self):

        with open(self.filepath, 'w') as file:

            file.write(str(self.balance))

class Checking(Account):

    def \_\_init\_\_(self, filepath, **fee**): **🡨 🡨 🡨**

        Account.\_\_init\_\_(self, filepath)

**self.fee** =  fee **🡨 🡨 🡨**

    def transfer(self, amount):

        self.balance = self.balance - amount - **self.fee** **🡨 🡨 🡨**

checking = Checking("balance.txt", 1) **🡨 🡨 🡨**

checking.transfer(100)

print(checking.balance)

checking.commit()

## OOP Glossary:

* **Class**: Like an object blueprint or prototype.
* **Object Instance**: Created when you call the class.
* **Instance Variable**: Defined inside the methods of the class, and these are accessible by the object instance.
* **Class Variable**: We didn’t create one before, but we’ll create one for our **Checking** Account now: **type = “checking”**. Class variables are shared by *all the instances* of that class:

class Checking(Account):

    type = "checking" **🡨 🡨 🡨**

    def \_\_init\_\_(self, filepath, fee):

        Account.\_\_init\_\_(self, filepath)

        self.fee =  fee

* + For example, our single *object instance* for our checking account has this **Class variable**. If we create more instances of checking accounts, they will all have that **Class variable**.

jacks\_checking = Checking("jack.txt", 1)

jacks\_checking.transfer(100)

print(jacks\_checking.balance)

jacks\_checking.commit()

print(jacks\_checking.type) **🡨 🡨 🡨**

johns\_checking = Checking("john.txt", 1)

johns\_checking.transfer(100)

print(johns\_checking.balance)

johns\_checking.commit()

print(johns\_checking.type) **🡨 🡨 🡨**

* + This will print “checking” for each account.
* **Doc Strings**: A Docstring is usually passed right under the **class** keyword:

class Checking(Account):

    """

    This class generates checking account objects. **🡨 🡨 🡨**

    """

    type = "checking"

* Now if we run **print(johns\_checking.\_\_doc\_\_)** at the bottom of our code, it will print the Docstring, “**This class generates checking account objects.**”
  + This is very useful when importing classes from modules. If you can’t see the class itself, you can still print out the Docstring to get some information.
* **Data Member**: Class variables or Instance variables (i.e. **type = “checking”** or **self.fee = fee**).
* **Constructor**: The **\_\_init\_\_** function. The constructor constructs the class. A special method.
* **Methods**: We create methods by defining them as functions that we can apply to our object instance.
* **Instantiation**: The process of creating *objects instances*, or *instances of a class*.
* **Inheritance**: When we create a **subclass** out of a **base class**. This subclass shares the methods of the base class, plus it has its own methods that are specific to that subclass.
* **Attributes**: When you access class variables or instance variables, you can say you’re accessing the ***attributes*** of your object.

# Section 27: App 6: Mobile App Development: Build a Feel-Good App:

## Demo of the Mobile App:

* A single app will be accessible to Android, iOS, Windows, macOS, and Linux. It will have a login and will take information about people’s emotional state.

## Creating a User Login Page:

*Note: Resources for this lecture includes “kivy documentation”*.

* We start by creating a new file, “**main.py**”. This is standard practice for executable apps such as ours, and naming it something else can cause errors later. This is where the logic of the program will be written, in the Python language.
* We also created a *kivy file*, “**design.kv**”.
* ![Graphical user interface, application, Teams

  Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SNmRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjEyOjEwIDE1OjA1OjQ0AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM4NwAAkpIAAgAAAAM4NwAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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bpeXl36+hxcXwt1qTULq0dIYTbhWeWR8JhvunPvUNj8ONW1C6voVEMf2RgssjvhMnoAfeu8v8A4naPeeJLi5S5uYoZLeKLcYwQ2zqCKoWPj7RY9c1aZHuLK0uWVlRU3q4A5BB9a1eFwPNZT0u+vrYxWKzGSb9nrZdOul/1OQj+HerySrEkUbu1wLcbXz8x6fhUn/Csdc+0yweQvmRXH2ZgW/jxn8sV1el/E/StOvddkS2kEc37y0/2JBxn+dWLj4vWMl1okqQyrtjb7ee7yFdu4f8AAan6tgOS/Prfv5lvE5jzW9npb8bX/wCAcdN8MtXS/srWMQTm8l8mOSGTcm70JqdfhTqq3k8Mk1oqW5CyyecNqk/w59a6LTvHmh+HZNJt7Jp7q2gvftU0si4bpjAFZ1h4w0m/t9VsdSaeCC4u/tUUsYy3B6EVMaGCuk3r2v5dy5Vsc4Xivw897X7G43w/8M6f4mXR7iC6uribYB5cmFiBUZfPfmvLdesYdN1m9tbeUTQwysiSf3gDgGu21/x5bXGt6jeadNLCstn9njZ1G4/KB+FeduSzFicknOa48bOi/dpR2Z2YGFdLmqyb02Y2iiivJPUCiiigAooooAK1PDOmwavrlnZ3MoghmkCNIewNZdX9Duraz1SCW8iaa2VvnRTgke1a0rc65iJ35Xbc9B8TeDdEt5BZQWF5YXizLHGzsXS4BOMg9qw/+FZ6hdXuoLbiOC3tZhCXuZAoLnooPc10qePNE03T0t4rm71FTcJKv2lR+5AOcA1raTqFt8Qob+1WO6jt11JbyKSEAnpghh6e9fSexwdaS117LQ+aWIxdGLck7Lq9e3TT7jjT8G9dRn802sIWXyd0koAL4zgVzMPhm9n15tHEYW8DlCrHoRXp/wASfG2nLqi2MEskhtdQSZnTkFVAB/HiuQm8ZWi/EqTXUR2s2n37cfNtNcmKw+Epz5actmuvQ6sJiMbVhz1I7xvtbXT8ylo/w51bW3RLaOMlpzbjc2PnAz+VQeIvA9/4ds0upjDLbO5j8yF9wDD+E+9es+B/Evh6TWrGwsZp5GlvHuHaRQuFKHgc1wni7xFpdv4ZfRNNkluTJdtcTSyrjbjgAVpWwuFp0HNO79epFHF4upiFBxsvTp69Dz6iiivnT6EKKKKACiiigAooooAdJ/rG+pptOk/1jfU02gA3H1oyaKKADJqWC7ntSTDM8RPXYxGaiopptbCaT0YrOzHLEsfekyaKKLsY5ZnVWCuwDdQD1puaKKLt7gG4+tGTRRSAMmiiigAo3H1oooANx9aKKKACiiigAooooAKKKKACiiigAyalhvJ7YkxTPGW67GIzUVFNScXdMHqrMVmLHJOT60mTRRQ5N6sB0czwsGR2Rh0ZTg00knqc0UUXYBRRRSAKKKKACiiigAooooAdJ/rG+pptTXkYjuZFH94/zqGgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//2Q==)We also kept a screenshot of the desired GUI up on the screen for reference (this could be a screenshot or even just a sketch on paper of what you want the eventual GUI to look like):
* There are two ways to create a mobile app using Python and Kivy.
  + The first is to write everything in Python.
  + The second is to write a GUI in the .kv file. This is the method we’re going to use.
* In **main.py** we write:

from kivy.app import App

from kivy.lang import Builder

from kivy.uix.screenmanager import ScreenManager, Screen

Builder.load\_file('design.kv') **🡨 🡨 🡨 points to our “design.kv” file**

* The way that Kivy works is that it’s hierarchical. For now we’re only interested in having one screen for our login, so we type:
  + **<LoginScreen>:**
  + If we were to also include a sign-up screen, we would type **<SignUpScreen>:** below that.
  + We also installed a Kivy extension so that VSCode will highlight our Kivy syntax.
  + Our screen has **widgets**. Our first widget is **Label**, but even before that we want to include an *invisible widget*, **GridLayout**, in order to organize our screen. Our GridLayout will have one column and an undefined number of rows by default, but we can set “**cols: 2**” if we want 2 columns. We can also *nest* GridLayouts:

<LoginScreen>:

    GridLayout:

        GridLayout:

            Label:

                text: "User Login"

            TextInput:

                hint\_text: "Username"

            TextInput:

                hint\_text: "Password"

            Button:

                text: "Login"

        GridLayout:

            cols: 2

            Button:

                text: "Forgot Password?"

            Button:

                text: "Sign Up"

* We also want to end our Kivy file with an “invisible widget”, **<RootWidget>:**, which will keep track of all of our app’s screens:

<RootWidget>:

    LoginScreen:

        name: "login\_screen"

* So far we only have one screen to keep track of.
* Now that we have our Kivy file set up, we want to go back to our Python file and create some ***empty classes*** that have the same names as our *rules* in Kivy.

class LoginScreen(Screen):

    pass

class RootWidget(ScreenManager):

    pass

* We also want to create a **class MainApp(App):** that references the **build** method from **App** (running **dir(App)** will show this among its methods).
  + This class needs to return RootWidget() (the *object*, not the *class*).
* The last thing we need to do in our Python script is to *call* our **MainApp** class. It’s a good practice to nest this inside a conditional such that **\_\_name\_\_ == “\_\_main\_\_”**.

from kivy.app import App

from kivy.lang import Builder

from kivy.uix.screenmanager import ScreenManager, Screen

Builder.load\_file('design.kv')

class LoginScreen(Screen):

    pass

class RootWidget(ScreenManager):

    pass

class MainApp(App):

    def build(self):

        return RootWidget() **🡨 🡨 🡨**

if \_\_name\_\_ == "\_\_main\_\_": **🡨 🡨 🡨**

    MainApp().run()

* Note that **.run()** is also a method of **App**.
* At this point we ran **main.py** to test for errors. We got no errors in our console, but the GUI doesn’t look how we want it to look.
* The grid layout isn’t behaving how it was meant to, and this is because we didn’t specify how many columns it should have. Adding those in makes our Kivy file look like this:

<LoginScreen>:

    GridLayout:

        cols: 1 **🡨 🡨 🡨**

        GridLayout:

            cols: 1 **🡨 🡨 🡨**

            Label:

                text: "User Login"

            TextInput:

                hint\_text: "Username"

            TextInput:

                hint\_text: "Password"

            Button:

                text: "Login"

        GridLayout:

            cols: 2

            Button:

                text: "Forgot Password?"

            Button:

                text: "Sign Up"

<RootWidget>:

    LoginScreen:

        name: "login\_screen"

* Running **main.py** now gives us a screen that is set up more or less how we want it. We just need to add some padding and formatting to improve it later.
* He ended the video by pointing out that the above fields such as “**GridLayout**” are Python classes found within Kivy. We could’ve also, in Python, done “**from kivy.uix.gridlayout import GridLayout**” in order to do everything in Python. However, by using a Kivy file, these classes are imported implicitly.
* In terms of Kivy hierarchy, the highest thing is **App** (represented by **MainApp**), followed by **ScreenManager** (which is represented by **RootWidget**), followed by **Screen** (which is represented by **LoginScreen**).
  + **App (MainApp) 🡪 ScreenManager (RootWidget) 🡪 Screen (LoginScreen)**
* Because of this hierarchy, we also could’ve nested our entire Kivy file underneath **RootWidget** and it would work the same way:
  + **App (MainApp) 🡪 ScreenManager (RootWidget) 🡪 Screen (LoginScreen)** 🡪
    - 🡪 **GridLayout 🡪 GridLayout 🡪 TextInput, Button**
* However, the first way we wrote our Kivy script is easier to keep organized when we add more screens later.

## Creating a User Sign-Up Page:

* Currently when we run **main.py**, our GUI looks pretty good, but nothing happens when we press any of the buttons.
* We’re going to start by granting functionality to the “**Sign Up**” button.
* We start by going into our **design.kv** code and adding another attribute to our “Sign Up” Button. Below “**text:**”, we add “**on\_press: root.sign\_up()**”:

            Button:

                text: "Sign Up"

                on\_press: root.sign\_up() **🡨 🡨 🡨**

* Here, “**root**” is a special name that can be used inside of a Kivy file, and “root” is the class of the **rule** widget, “**<LoginScreen>**”, or “**class LoginScreen**” in Python. So “root” refers to our Python **LoginScreen** class.
* It’s using the method ”**.sign\_up()**” from **LoginScreen**, which we haven’t added yet, but we can create it:

class LoginScreen(Screen):

    def sign\_up(self): **🡨 🡨 🡨**

        print("Sign up button pressed")

* Now when we run our Python file and press the “Sign Up” button, the message “Sign up button pressed” prints out to the terminal. However, this message is just for testing purposes. What we really want to do is ***switch the screen***.
* But first, we need to ***create the Sign Up screen***. We do this in the Kivy file:

<SignUpScreen>: **🡨 🡨 🡨**

    GridLayout:

        cols: 1

        Label:

            text: "Sign Up for a space journey!"

        TextInput:

            hint\_text: "Username"

        TextInput:

            hint\_text: "Password"

        Button:

            text: "Submit"

* Submitting a new entry to this screen will save this information to a ***writable*** and ***readable*** **database** that we’ll create. This database will be a **JSON file**.
* At this stage, if we save this and run the Python script, nothing is going to happen yet when we click on “Sign Up”. This is because we haven’t linked our new screen to the “Sign Up” button yet; it will still just print the test message.
  + We need to list the **SignUpScreen** in our **<RootWidget>** section:

<RootWidget>:

    LoginScreen:

        name: "login\_screen"

    SignUpScreen: **🡨 🡨 🡨**

        name: "sign\_up\_screen" **🡨 🡨 🡨**

* Now in the Python file we modify our **def sign\_up(self)**:

class LoginScreen(Screen):

    def sign\_up(self):

        self.manager.current = "sign\_up\_screen" **🡨 🡨 🡨**

* However, when we ran our Python script, we got an error message saying “**Unknown class <SignUpScreen>**”. This is because there isn’t a built-in class named SignUpScreen in Kivy, and we haven’t created a class by that name in Python. To fix this, we add a new class of that name to our Python script, inheriting from **Screen**:

class RootWidget(ScreenManager):

    pass

class SignUpScreen(Screen): **🡨 🡨 🡨**

    pass

* And now the new screen pops up when the “Sign Up” button is clicked.
* Explaining “**self.manager.current**”:
  + “**self**” refers to the instance that has been created from this current class “LoginScreen”.
  + “**manager**” is a property of “Screen” (which “LoginScreen” is inheriting from). “manager” has a property known as “current”.
  + “**current**” attribute will get the name of the screen we want to switch to, which is “**sign\_up\_screen**”, which is a widget we have created in our Kivy program.

## Capturing User Input:

* At this stage, we want to be able to take input for a username and password on the Sign Up page and store it in the database when we click “Submit”.
  + Note: Once we have the functionality of our program working, then we’ll play around with the design of the app to make it look better.
* We’re going to add functionality to the “**Submit**” button now. We start by adding a line to that button in Kivy:

        Button:

            text: "Submit"

            on\_press: root.add\_user() **🡨 🡨 🡨**

* Then we add a function in Python to our **SignUpScreen** class called **add\_user**:

class SignUpScreen(Screen):

    def add\_user(self): **🡨 🡨 🡨**

        pass

* This method is going to get our **username** and **password** values and it’s going to store them in a **JSON file**.
* We can access the username using **root.ids.username**:

class SignUpScreen(Screen):

    def add\_user(self, uname, pword): **🡨 🡨 🡨**

        print(uname, pword) **🡨 🡨 🡨 for testing**

        TextInput:

        id: username **🡨 🡨 🡨**

            hint\_text: "Username"

        TextInput:

        id: password **🡨 🡨 🡨**

            hint\_text: "Password"

        Button:

            text: "Submit"

            on\_press: root.add\_user(root.ids.username, root.ids.password) **🡨 🡨 🡨**

* To use this in our Python script, we need to add some parameters to the function:
* However, the test print here just prints out two Kivy TextInput objects at a location in memory rather than the actual text entries. If we want the actual text, we need to use **root.ids.username.text** and **root.ids.password.text**. Now we get the actual text printing out.
* He then broke down the entire **on\_press** line:
* He then broke down the entire **on\_press** line:
  + **root** refers to **<SignUpScreen>**.
  + **add\_user** is the *method* in our Python **SignUpScreen** class.
  + class **ids** is a property of the SignUpScreen object, which is inherited from **Screen**. This actually gives a sort of *dictionary* with all the IDs within the SignUpScreen rule. It gives us access to the usernames, the passwords, etc. **text** accesses the actual text from this dictionary.

### Full Python Code, so far:

from kivy.app import App

from kivy.lang import Builder

from kivy.uix.screenmanager import ScreenManager, Screen

Builder.load\_file('design.kv')

class LoginScreen(Screen):

    def sign\_up(self):

        self.manager.current = "sign\_up\_screen"

class RootWidget(ScreenManager):

    pass

class SignUpScreen(Screen):

    def add\_user(self, uname, pword): **🡨 🡨 🡨**

        print(uname, pword) **🡨 🡨 🡨**

class MainApp(App):

    def build(self):

        return RootWidget()

if \_\_name\_\_ == "\_\_main\_\_":

    MainApp().run()

### Full Kivy Code, so far:

<LoginScreen>:

    GridLayout:

        cols: 1

        GridLayout:

            cols: 1

            Label:

                text: "User Login"

            TextInput:

                hint\_text: "Username"

            TextInput:

                hint\_text: "Password"

            Button:

                text: "Login"

        GridLayout:

            cols: 2

            Button:

                text: "Forgot Password?"

            Button:

                text: "Sign Up"

                on\_press: root.sign\_up()

<SignUpScreen>:

    GridLayout:

        cols: 1

        Label:

            text: "Sign Up for a space journey!"

        TextInput:

            id: username **🡨 🡨 🡨**

            hint\_text: "Username"

        TextInput:

            id: password **🡨 🡨 🡨**

            hint\_text: "Password"

        Button:

            text: "Submit"

            on\_press: root.add\_user(root.ids.username.text, root.ids.password.text) **🡨 🡨 🡨**

<RootWidget>:

    LoginScreen:

        name: "login\_screen"

    SignUpScreen:

        name: "sign\_up\_screen"

## Processing User Sign Ups:

* In this lecture, we’re going to implement the Sign-Up Screen such that it stores the inputs in a **JSON file**.
* He included his version of **users.json** as a download, but we can also start with an empty one. I chose to download his version.
  + By default this was formatted as a single line.
  + You can reformat it to be more readable by using:
    - **SHIFT + ALT + ‘F’** on Windows.
    - **SHIFT + OPTION + ‘F’** on Mac.
    - **CTRL + SHIFT + ‘I’** on Linux.
  + It now looks like this:

{

  "user1": { **🡨 🡨 🡨 key**

    "username": "user1", **🡨 🡨 🡨 key-value pair in sub-dictionary**

    "password": "password1",

    "created": "2020-07-07 00:16:28.293901"

  }, **🡨 🡨 🡨 smaller dictionary is value of key “user1”**

  "user2": {

    "username": "user2",

    "password": "password2",

    "created": "2020-07-07 00:28:07.315781"

  }

}

* The idea is the app will add new users here when a user presses the “Submit” button on the Sign-Up Page. It acts as a big Python dictionary made up of smaller dictionaries.
* Up top we need to **import json** to our Python file.
* Then we modify our **add\_user** method:

class SignUpScreen(Screen):

    def add\_user(self, uname, pword):

        with open("users.json") as file: **🡨 🡨 🡨 opens users.json file**

            users = json.load(file) **🡨 🡨 🡨 loads json file into Python dict**

        print(users) **🡨 🡨 🡨 prints Python dict (for testing)**

* Running this as-is just prints “users.json” to our console as a Python dictionary. No new information is added at this stage, even though I input “u1” and “p1” into the Sign-Up page and pressed “Submit”.
* We can add a new **key** and **value** to this dictionary:

    def add\_user(self, uname, pword):

        with open("users.json") as file:

            users = json.load(file)

        users[uname] = {'username': uname, 'password': pword,

            'created': datetime.now().strftime("%Y-%m-%d %H:%M:%S")} **🡨 🡨 🡨**

        print(users)

* This adds new user information to the dictionary AND formats the datetime to be similar the existing entries in the dictionary. However, these additions aren’t permanently added yet.

    def add\_user(self, uname, pword):

        with open("users.json") as file:

            users = json.load(file)

        users[uname] = {'username': uname, 'password': pword,

            'created': datetime.now().strftime("%Y-%m-%d %H:%M:%S")}

        with open("users.json", 'w') as file: **🡨 🡨 🡨**

            json.dump(users, file) **🡨 🡨 🡨**

* Now we just need to open “users.json” in ***write*** mode in order to save the changes:
* This will create a new **empty JSON file** called “users.json” and will fill it with our dictionary, which includes both the old and new information.
  + Note: The updated JSON file seems to have trouble formatting using **SHIFT + ALT + ‘F’** for some reason.

## Creating a Sign Up Success Page:

* Now that we can add new users by typing them into the text boxes and clicking “Submit”, let’s create another page to show when “Submit” is pressed.
* First we need to add a line to the end of our **add\_user** method in Python:

    def add\_user(self, uname, pword):

        with open("users.json") as file:

            users = json.load(file)

        users[uname] = {'username': uname, 'password': pword,

            'created': datetime.now().strftime("%Y-%m-%d %H:%M:%S")}

        with open("users.json", 'w') as file:

            json.dump(users, file)

        self.manager.current = "sign\_up\_screen\_success” **🡨 🡨 🡨**

* This will point to a screen with the same name that we’ll create in our Kivy file:

<RootWidget>:

    LoginScreen:

        name: "login\_screen"

    SignUpScreen:

        name: "sign\_up\_screen"

    SignUpScreenSuccess: **🡨 🡨 🡨**

        name: "sign\_up\_screen\_success" **🡨 🡨 🡨**

* Now we just need to create/format the actual screen up above that:

<SignUpScreenSuccess>

    GridLayout:

        cols: 1

        Label:

            text: "Sign up successful!"

        Button:

            text: "Login Page"

* Running as-is lead to a “FactoryException”. We forgot to create a ***class*** in our Python program for this new screen:

class SignUpScreenSuccess(Screen):

    pass

* Now when we run the script and sign up as “u3” and “p3”, we successfully get to the “Sign up success” page. However, clicking the “Login Page” button doesn’t do anything yet, as we haven’t added an **on\_press** line to it.
* As an exercise, he had us try and figure out what code to add so that this “**Login Page**” button takes us back to the main “User Login” page. I did that with the following:
* In Python, I added a **log\_in** method that changes screens and that Kivy can reference:

<SignUpScreenSuccess>

    GridLayout:

        cols: 1

        Label:

            text: "Sign up successful!"

        Button:

            text: "Login Page"

            on\_press: root.log\_in() **🡨 🡨 🡨**

class SignUpScreenSuccess(Screen):

    def log\_in(self): **🡨 🡨 🡨**

        self.manager.current = "login\_screen" **🡨 🡨 🡨**

* And then in Kivy, I added an **on\_press** line referencing the **log\_in** method in Python:
* And it worked!

## Switching Between Pages:

* He started by implementing the “Login Page” button in **<SignUpScreenSuccess>** just like he had us do as an exercise at the end of the last section.
* However, he used the name **go\_to\_login** for his method, so I’ll change mine to be consistent in case it would’ve otherwise become an issue in future lectures.
* Python:

<SignUpScreenSuccess>

    GridLayout:

        cols: 1

        Label:

            text: "Sign up successful!"

        Button:

            text: "Login Page"

            on\_press: root.go\_to\_login() **🡨 🡨 🡨**

class SignUpScreenSuccess(Screen):

    def go\_to\_login(self): **🡨 🡨 🡨**

        self.manager.current = "login\_screen"

* Kivy:
* After implementing this, he pointed out that the *default transition between screens* is called “**left**”, which means that every time we switch to another screen, it swipes in to the left.
* However, maybe we want to change the transition to “**right**”.
* We do that with:

class SignUpScreenSuccess(Screen):

    def go\_to\_login(self):

        self.manager.transition.direction = "right" **🡨 🡨 🡨**

        self.manager.current = "login\_screen"

* Now when we click on “**Login Page**” in the success page, the screen swipes ***right***.

## Processing User Login Credentials:

* He started the video by showing a version of the program with a lot more functionality, what we’re still trying to accomplish.
* We need to add another screen, **LoginScreenSuccess**, in Kivy:

<RootWidget>:

    LoginScreen:

        name: "login\_screen"

    SignUpScreen:

        name: "sign\_up\_screen"

    SignUpScreenSuccess:

        name: "sign\_up\_screen\_success"

    LoginScreenSuccess: **🡨 🡨 🡨**

        name: "login\_screen\_success" **🡨 🡨 🡨**

* We also need to format this new screen:

<LoginScreenSuccess>:

    GridLayout:

        cols: 1

        Button:

            text: "Logout"

            on\_press: root.log\_out() **🡨 🡨 🡨 we still need to create this**

        Label:

            text: "How do you feel?"

        TextInput:

            hint\_text: "Things to try: happy, sad, unloved..."

        Button:

            text: "Enlighten me"

        Label:

            text: ""

* Then we need to create a new ***class*** for this screen in Python and give it **logout** functionality:

class LoginScreenSuccess(Screen):

    def log\_out(self):

        self.manager.transition.direction = "right"

        self.manager.current = "login\_screen"

* However, at this stage we still haven’t implemented the **Login button** in our main Login Page. To do that, we need to go back into Kivy and give that button an **on\_press** line in the Login Screen section:

            Button:

                text: "Login"

                on\_press: root.login() **🡨 🡨 🡨**

* We also need to add a similar method as our **add\_user** method from our **SignUpScreen** class to our **LoginScreen** class. It will check the input credentials against the JSON file.

            TextInput:

                id: username **🡨 🡨 🡨**

                hint\_text: "Username"

            TextInput:

                id: password **🡨 🡨 🡨**

                hint\_text: "Password"

            Button:

                text: "Login"

                on\_press: root.login(root.ids.username.text, root.ids.password.text) **🡨 🡨 🡨**

* Adding to the above Kivy section:
* This will get the input values and pass them to the Python method.
* We need the program to check login credentials against the JSON file, and if they’re correct, we want to switch the screen to LoginSuccessScreen:

class LoginScreen(Screen):

    def sign\_up(self):

        self.manager.current = "sign\_up\_screen"

    def login(self, uname, pword):

        with open("users.json") as file: **🡨 🡨 🡨**

            users = json.load(file)

        if uname in users and users[uname]['password'] == pword: **🡨 🡨 🡨**

            self.manager.current = "login\_screen\_success" **🡨 🡨 🡨**

* We still need to add an “else” conditional, but we’re going to run it here to see if it needs any debugging.
  + So far, so good. I get to the LoginSuccessScreen (though nothing here except for the Logout Button works at the moment.
* At the moment, if we input any incorrect data, nothing happens. So we’re going to add a label just under the Login button, with empty text for now. This adds a space under the “Login” button. This will give us space for our “else” conditional.
* We also need to add an **id** to this label, **login\_wrong**:

            Button:

                text: "Login"

                on\_press: root.login(root.ids.username.text, root.ids.password.text)

            Label:

                id: login\_wrong **🡨 🡨 🡨**

                text: "" **🡨 🡨 🡨**

* We can now point to this label in our “else” conditional:

    def login(self, uname, pword):

        with open("users.json") as file:

            users = json.load(file)

        if uname in users and users[uname]['password'] == pword:

            self.manager.current = "login\_screen\_success"

        else:

            self.ids.login\_wrong.text = "Wrong username or password!" **🡨 🡨 🡨**

* And now this label pops up in that empty space! And that’s how we access elements in the Kivy file.

## Displaying Output to the User:

*Note: Resources for this lecture include a zip file filled with three text files we need for this lecture: Files.zip. They are titled ‘happy’, ‘sad’, and ‘unloved’*.

* Download the zip file, ‘**Files.zip**’. Then extract the files ‘**happy.txt**’, ‘**sad.txt**’, and ‘**unloved.txt**’, and place them in a folder called ‘**quotes**’ in the same directory as **main.py**.
* What we’re going to do in this lecture is, in the program that we have we’re going to write one of the three supported feelings (the ‘**hint\_text**’ of “Things to try: happy, sad, unloved…”) and set it such that if we write “**happy**” then it will show one of the quotes from the “**happy.txt**” file, etc.
  + If the user enters an unsupported feeling, the output will be “Try another feeling”.
* First off, we’re going to locate the “**Enlighten me**” button in our **<LoginScreenSuccess>** and add an **on\_press** line:

        Button:

            text: "Enlighten me"

            on\_press: root.get\_quote() **🡨 🡨 🡨**

* Now this **get\_quote()** method needs to be added to **class LoginScreenSuccess** so that ***root*** can access it. However, we also need to add an id, ’**feeling**’ to the TextInput and we need to run the method on that:

        TextInput:

            id: feeling **🡨 🡨 🡨**

            hint\_text: "Things to try: happy, sad, unloved..."

        Button:

            text: "Enlighten me"

            on\_press: root.get\_quote(root.ids.feeling.text) **🡨 🡨 🡨**

* Now we can pass this to our Python method:

    def get\_quote(self, feels):

        print(feels)

* We’re going to start by printing “feels” just as a test. So far, so good.
  + Note: He (and I) added a username-password combination that was just “” and “” (empty strings), just to speed things up for testing. Now you just have to click buttons.
* Now that that works, we may want to convert any input feeling into all lowercase, to correspond to our .txt files. We also want to **import glob** up top, because we’re going to use it:

    def get\_quote(self, feel):

        feel = feel.lower() **🡨 🡨 🡨**

        available\_feelings = glob.glob("quotes/\*txt") **🡨 🡨 🡨 creates a list**

        print(available\_feelings)

* When we run this, a list gets printed out to the console that includes all the available files, all of the available feelings.
* Now we want to extract only the stuff from the file matching the feeling. A way to do that is by using the **Path object** of the **pathlib** library.
  + Using Path, if you give Path a filepath and then extract the **.stem** from that, it gives you the name of the file without the extension or the higher part of the filepath.
    - Using **.name** would give you the full name of the file, including the extension, i.e. “sad.txt”.
  + We want to apply this to all the file names with a ***list comprehension***.

    def get\_quote(self, feel):

        feel = feel.lower()

        available\_feelings = glob.glob("quotes/\*txt")

        available\_feelings = [Path(filename).stem for filename in

                                available\_feelings] **🡨 🡨 🡨**

        print(available\_feelings) **🡨 🡨 🡨 for testing**

* In Python, we’re adding:
  + Note: Don’t forget **from pathlib import Path** up top to get this to work.
  + Running this gives us a list of **[‘happy’, ‘sad’, ‘unloved’]**.
* Having trouble after adding the conditional.
  + After looking up the error on Stack Overflow, managed to fix it by adding some more attributes to the **open()** method:
    - **encoding=‘utf-8’, errors=‘ignore’)**:

        available\_feelings = [Path(filename).stem for filename in

                                available\_feelings]

        if feel in available\_feelings:

            with open(f"quotes/{feel}.txt", **encoding='utf-8'**, **errors='ignore'**) as file: **🡨 🡨 🡨**

                quotes = file.readlines()

            self.ids.quote.text = random.choice(quotes)

* Now I just have the “AttributeError: ‘super’ object has no attribute” error like the instructor currently does in the video. He explained that this is a common error if the Python code can’t find the ID in Kivy, in this case: “id: quote”. He said that sometimes this is caused when one doesn’t save their Kivy file after making a change.
* Now that it’s working, clicking “**Enlighten me**” more than once will display new quotes with every press.
* Sometimes you’ll get a long quote that won’t fit into the label. In the future, we’re going to add a scrollable area so you can scroll to read the entire quote.
* Now we just need to ***stylize the app***.

### Full Python Program, so far:

from kivy.app import App

from kivy.lang import Builder

from kivy.uix.screenmanager import ScreenManager, Screen

import json, **glob**, **random** **🡨 🡨 🡨**

from datetime import datetime

from pathlib import Path **🡨 🡨 🡨**

Builder.load\_file('design.kv')

class LoginScreen(Screen):

    def sign\_up(self):

        self.manager.current = "sign\_up\_screen"

    def login(self, uname, pword):

        with open("users.json") as file:

            users = json.load(file)

        if uname in users and users[uname]['password'] == pword:

            self.manager.current = "login\_screen\_success"

        else:

            self.ids.login\_wrong.text = "Wrong username or password!"

class RootWidget(ScreenManager):

    pass

class SignUpScreen(Screen):

    def add\_user(self, uname, pword):

        with open("users.json") as file:

            users = json.load(file)

        users[uname] = {'username': uname, 'password': pword,

            'created': datetime.now().strftime("%Y-%m-%d %H:%M:%S")}

        with open("users.json", 'w') as file:

            json.dump(users, file)

        self.manager.current = "sign\_up\_screen\_success"

class SignUpScreenSuccess(Screen):

    def go\_to\_login(self):

        self.manager.transition.direction = "right"

        self.manager.current = "login\_screen"

class LoginScreenSuccess(Screen):

    def log\_out(self):

        self.manager.transition.direction = "right"

        self.manager.current = "login\_screen"

    def get\_quote(self, feel): **🡨 🡨 🡨**

        feel = feel.lower() **🡨 🡨 🡨**

        available\_feelings = glob.glob("quotes/\*txt") **🡨 🡨 🡨**

        available\_feelings = [Path(filename).stem for filename in

                                available\_feelings] **🡨 🡨 🡨**

        if feel in available\_feelings: **🡨 🡨 🡨**

            with open(f"quotes/{feel}.txt", encoding='utf-8', errors='ignore') as file: **🡨 🡨 🡨**

                quotes = file.readlines() **🡨 🡨 🡨**

            self.ids.quote.text = random.choice(quotes) **🡨 🡨 🡨**

        else:

            self.ids.quote.text = "Try another feeling." **🡨 🡨 🡨**

class MainApp(App):

    def build(self):

        return RootWidget()

if \_\_name\_\_ == "\_\_main\_\_":

    MainApp().run()

### Full Kivy Code, so far:

<LoginScreen>:

    GridLayout:

        cols: 1

        GridLayout:

            cols: 1

            Label:

                text: "User Login"

            TextInput:

                id: username

                hint\_text: "Username"

            TextInput:

                id: password

                hint\_text: "Password"

            Button:

                text: "Login"

                on\_press: root.login(root.ids.username.text, root.ids.password.text)

            Label:

                id: login\_wrong

                text: ""

        GridLayout:

            cols: 2

            Button:

                text: "Forgot Password?"

            Button:

                text: "Sign Up"

                on\_press: root.sign\_up()

<SignUpScreen>:

    GridLayout:

        cols: 1

        Label:

            text: "Sign Up for a space journey!"

        TextInput:

            id: username

            hint\_text: "Username"

        TextInput:

            id: password

            hint\_text: "Password"

        Button:

            text: "Submit"

            on\_press: root.add\_user(root.ids.username.text, root.ids.password.text)

<SignUpScreenSuccess>

    GridLayout:

        cols: 1

        Label:

            text: "Sign up successful!"

        Button:

            text: "Login Page"

            on\_press: root.go\_to\_login()

<LoginScreenSuccess>:

    GridLayout:

        cols: 1

        Button:

            text: "Logout"

            on\_press: root.log\_out()

        Label:

            text: "How do you feel?"

        TextInput:

            id: feeling **🡨 🡨 🡨**

            hint\_text: "Things to try: happy, sad, unloved..."

        Button:

            text: "Enlighten me"

            on\_press: root.get\_quote(root.ids.feeling.text) **🡨 🡨 🡨**

        Label:

            id: quote **🡨 🡨 🡨**

            text: ""

<RootWidget>:

    LoginScreen:

        name: "login\_screen"

    SignUpScreen:

        name: "sign\_up\_screen"

    SignUpScreenSuccess:

        name: "sign\_up\_screen\_success"

    LoginScreenSuccess:

        name: "login\_screen\_success"

## Stylizing the Login Page:

* Now that we have our app’s functionality working (except for the “Forgot Password?” button), we can work on styling our app to look nicer.
* Since it’s easy to drag-resize our app window (and it automatically resizes), we can make it the size and shape of a phone screen. This is nice since it gives us an idea of what the finished mobile app will look like.
* We’re not doing any work in the Python file this time, just in the Kivy file.
* Padding & Spacing: The first thing we want to add is some padding and some spacing. Currently, all of our buttons and text boxes are stretched out to the edges of the screen. To change this, we add some fields to our **<LoginScreen>** **GridLayout**:

<LoginScreen>:

    GridLayout:

        cols: 1

        padding: 15, 15 **🡨 🡨 🡨**

        spacing: 20, 20 **🡨 🡨 🡨**

* “**Padding**” refers to the border *around* the GridLayout, so it adds padding between the grid and the outermost border of the window.
* ![A picture containing diagram

  Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TjmRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjEyOjI1IDA4OjMwOjEwAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMxMQAAkpIAAgAAAAMxMQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMjoxMjoyNSAwODoyODo1MQAyMDIyOjEyOjI1IDA4OjI4OjUxAAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAJzkAAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgBAAC2AwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A4IeItXLEDVLvj/pqad/wkGsf9BO6/wC/prk+oYX+RfcX7SQ8eINXx/yErr/v6aadf1Uvj+07ncB0840fUML/AM+19wvaSH/8JBq+P+Qldf8Af01F/bmpncBqd37/AL9v8aPqGF/59r7h+0kKNZ1QLj+0rw47+e3+NB1zVBydSuhz/wA9m/xqvqOG/wCfa+4XPI1LJfFGpWyXVtfTCAyGIO92EDPgHb8zDnmi2h8T3U0sCXtyJo5DGYpb7Y5cfwhSwJPsK5XRwSbTgtPIu8i3oVj4j1S6sy2o3cVrNNs3NdYcgHDFVY5bHsKTS9O8R6vfWm7UbuO0kuPL3m5CuwBwxVSctj2BrKcMFFy9xaeQ7y7kX2fXLhbSOyvNRkllE7fNc4VljPJHzdgO/wCFN+zeKIrmK2F3cFpIzMri8DJsHVt+7aAO/NVGlgtpQV/QLy3IdQu/EWlGEXWoXKiZC8RS63hlzjIKkjFUT4h1bGW1O7wTj/XN/jW9PBYSceaMFb0Jc5J2A6/q2cf2ndA/9dm/xpP+Eg1bOP7Sus/9dm/xrT6hhf8An2he0kKNf1YjI1O6/wC/zf40f2/q3/QSu/8Av83+NH9n4X+RB7SQf2/q/wD0Erv/AL/N/jR/b2rf9BK6/wC/zf40vqGF/kQe0kdZ8P8AV9RuNcnSa9nkUWzHDSEjO5aK5quBw6lpBGkZux58FGc45pa9UwHAHFN2nzs5xxyPWldDsSYPoajNv0+T+Ld06000FmRm0bK8nj26/wD16fLbvKyHkBT6Z7j/AA/Wm2gszo9Pk0qLwpbW2oxSXMqahJOscEgjZfkUZOQeDz+VaFj4wihvHvZ9OcXJvTc5gZVDg4wjEqTgY7Eda8yWFnU5ru2rsa81kirZa9ZRXem3t7p081zpzt5BhmCIyFyw3AqeQWPQjNLpviGztzpst5p081xpzkwGKXYpXeWwwIPIJPQ0/qk1pzLy/H/MXMQQ+IBFFbJ9mkJigu4j82M+dnB/DP41JoupjyLHTZY4VgW3mgnM03lq6uwfhsHacgcnIq5Ya0G7/wBa/wCYXI/FD2T/ANlWliIytlbGNvKk8xQS5bG/A3HnkjjJ4rmpYGeQMGxj1XOOv+NdGGi1SXMRK9xn2QgD5uQGGQvTPpTktsFW2jKgj7vrWzaW7FZjWs2Yg7jkJtyFqeKIxxhMdPalzLuFmPIIGSCKSn5hsdf8Ov8AkYLj/r1b/wBCSiuar8RpHY42iul7MzW53HijxDq2l+ILmztblY4Ywm1fKQ4yinqR71h/8Jhr/nZ+1rjHXyU/wrxcPleGnRhOSd2l1ZtKo07En/CY692vV/78p/hUZ8XeIs/8f/Gef3EfT/vmt/7Hwl9U/vYvaSIf+Et8SsR/powOuYIv/ielPm8ZeIVZQt6AOpHkx89Pan/Y+E7P72J1ZIYvi/xHkZvsDd2hi6f980sPi/xCFAe+Gc8kwR88f7vrS/sfCdn97BVZCN4w8R70xfgrk5/cR9M/7vpU7eMNeCkrernt+4j/APiaf9j4Ts/vYvbSIP8AhMfEZHzXoJB6GCPH/oNSR+MfEYXH28Ae0Ef/AMTS/sbCdn97D20hw8Y+IAhDXwJ9fIj/APiajXxj4iBGL8AdwII8f+g0/wCx8J2f3sPbSFHjHxHlc6jnA5/cR8/+O1OPG2vAf8fw/wC/Ef8A8TQsnwnb8WHtpDh4214nH24f9+I//iaU+NNe/wCf4f8AfiP/AOJo/sjCdn97GqsifVNSu9V8Gx3N7KJZVvygbYF48sHsB6muYrXAwjTpyhHZN/mKo23c6/4df8h+4/69W/8AQkorSr8QR2OL3r/eFKGVuhBrolsQtzp/HP8AyN979Iv/AEWtYukqJfEFhBIqvG86BlIzkFgMVx0W1gotfy/oXL4zoNR8QLZapd2sei6QY4pnRS1qM4BI5waz28ZMpI/sHRSQT/y6/wD165qOXOdNSdWWq7luqk7WQg8ZF8f8SPRh/wBuo/xpf+ErY4P9haLgnGTaitP7L/6ey+8l1U+g5/FjKygaHorFvW0ApU8UTSWLXi6FovlLKsRP2bnJGRx9Kn+y/wDp7L7xqql0LcGp6pOspHhnStyIJFX7JyykqvHuC3NLZanqd2yj/hGtMiBm8ne9ngKd23n8eKP7L/6ey+8XtF2KzeJ5FdlOj6PlTg/6IP8AGk/4Sh/+gPo//gIP8aP7M/6ey+8PaLsH/CUN/wBAbR//AAEH+NJ/wkzf9AbR/wDwEH+NH9l/9PZfeHtF2Qf8JM3/AEBtH/8AAQf40f8ACTH/AKA2j/8AgKP8aP7L/wCnsvvD2i7I0vD+qx6rrdvZz6RpQikzuKWoB4BP9K49OVBrTCUXRrThzNqyevzCTTinY3tryeB40RSzHUyFAGSSYxWJJG8MrxyKVdGKsp7Eda1wrXvr+8/zJlujrvh0jnXbhgjFfsrDOOPvLRUV6sVO10XFaHE+WN2ck/jQqKpyB3rtlszJbnU+Of8Akb736Rf+i1rH0aRR4isFPykXEZLHoPmFcdH/AHGP+H9C5fGbmp+GNUutVvLiJIGjlmd1PnpyCSR3qp/wh+rf88rf/v8Ap/jXLSzahGnGOui7MuVKTYf8Idqw/wCWVv8A9/0/xo/4Q/V/+eUH/f8AT/Gr/tih2f3MXsZB/wAIhq3dLce5uE/xq9beH9Vt7GS1NpYzxu4kBe4GVYAjIww9e+aazfD+f3MPYyL01trs6GKTT9OaFkKmP7RgYLK39/jlR04pfK8TPgmGzLJJv3C4A4379pAbGM0f2th1q7/cxexkYp8IaxI7Nstsk5P+kp/jSjwXrJ6R25/7eY/8aX9s4bz+5h7GQf8ACFa3/wA8rf8A8CY/8aP+EK1v/nlb/wDgTH/jR/bOG8//AAFh7GQf8IVrf/PK3/8AAmP/ABo/4QrWv+edv/4Ex/40f2zhvP7mHsZGr4d8Nalpeu215dLAsMZO4idDjII6A+9cSn3B9K0wmIhiK05wvay3Vu45R5YpM7jwxqlno3h+3vb21M6JqTbdp5Q+WPmA7kVX1HxbHbahOul6ZpHlb90dx9m3OwPOSW7+vHWuWnhJVa05OTUW3t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RlPjIwMjItMTItMjVUMDg6Mjg6NTEuMTEzPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgIC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refers to the area *between* widgets such as buttons, text boxes, etc.
* We can also do things like increase the ***font size*** of “User Login”.

            Label:

                text: "User Login"

                font\_size: '20sp' **🡨 🡨 🡨**

* This **font\_size** field needs to be a *string*. The ‘sp’ portion of it stands for “*space-independent pixels*”.
* Button Size & Position: We can also **change the size** of the **Login button**. We do this with an attribute called “**size\_hint**”. By default, the area is proportionally divided between the widgets. For example, if you have two GridLayout widgets as children of a main one, each will get 50% of the area. The same happen for sub-widgets within each of those GridLayout widgets.

            Button:

                text: "Login"

                on\_press: root.login(root.ids.username.text, root.ids.password.text)

                size\_hint: 0.3, 0.5 **🡨 🡨 🡨**

* ![Graphical user interface

  Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4Sl2RXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjEyOjI1IDA4OjQwOjU5AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM1NgAAkpIAAgAAAAM1NgAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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6Pp/U0tCAKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFACN0oobpRQUiGy/1Df9dH/wDQjU9RWv8AqW/66P8A+hGpaSJCiiimAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVx3xV/5FmD/AK/rX/0aldjXHfFX/kWYP+v61/8ARqUmB2C/dH0/qaWkX7o+n9TS0IAooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAI3SihulFBSI7X/VH/ro//oRqWorX/Un/AK6P/wChGpaSJCiiimAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVx3xV/wCRZg/6/rX/ANGpXY1x3xV/5FmD/r+tf/RqUmB2C/dH0/qaWkX7o+n9TS0IAooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAI3SihulFBSI7X/AFJ/66P/AOhGpaitf9Sf+uj/APoRqWkiQooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFcd8Vf+RZg/wCv61/9GpXY1x3xV/5FmD/r+tf/AEalJgdgv3R9P6mlpF+6Pp/U0tCAKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFACN0oobpRQUiO1/1J/66P/6EalqK1/1J/wCuj/8AoRqWkiQooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFcd8Vf8AkWYP+v61/wDRqV2Ncd8Vf+RZg/6/rX/0alJgdgv3R9P6mlpF+6Pp/U0tCAKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFACN0oobpRQUiO1/wBSf+uj/wDoRqWorX/Un/ro/wD6EalpIkKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFGC3GM0pUr1BFACUUUUAFFFKFLdBmgBKKNpORjkdQRRQAUUUUAFFFFABRS7WYAgHH0pKACiiigAooooAKKKKACiiigAooooAKKKKACuO+Kv8AyLMH/X9a/wDo1K7GuO+Kv/Iswf8AX9a/+jUpMDsF+6Pp/U0tIv3R9P6mloQBRRRTAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACij8KKACiijnrzigAooxiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAEbpRQ3SigpEdr/qT/wBdH/8AQjUtRWv+pP8A10f/ANCNS0kSFFFFMAooooAKKKKACiiigAooooAKPSig/XFAHp3wBWL/AISDXppbpLDydDvJVvHgE3kEIMOF7kVpTaRpfiDTdZ8Uarqlx4ut9PmtbCFLK3+yszTCRt7DqFXyyPcsK8r03WLzSPtP2K4ktjcwvbTbD96N+GU+xq14f8W6x4Vmml0m/lsnlAEnlkYYDoCCMfSgD07W/hXoHhmHxBDctdXV0mqQafYyLJsESzQ+YpkHcrlQR6g1t2fwa8L61ca7bW8OpWZ0TVYrCWWVwftS+XOzsgxwx8ngf7QrxS48TaneRyRXN9PcQzXQvJVd/vygEbyfXBNd74n+N95qnhyLS9ON7byfaobuS6uJw7ho1dUVDjoN7Ek8nj0oA6X4feD/AAteeJPC+pto9xLYam15bNpt5KSVkij3CQHuDnGPWuZ+BrWzeMNamMq6bDHpV5JHLLF5/wBnwhIO0/eIrj7z4g+JLzWbLU5NXna/tDm3myB5Z9QAMfpWda+INRsrq6ure6kiuLxHjndcDer8Op9jmlcD2VoPD/xGuLW1Eza7LpNnPdX+rCMWMbgyRrGG4J2qT16ksKn/AOFKeHrHxbrOlyme+MclmLOBJ/LLJPAsp2uRhmXcAAcZrxbw/wCKNV8K3b3OlXktjM6GJ3jx8ykglSD1HA/Ktlfir4uS+uL1dduvtVwqLJISCWCKFTt1UAAHrQB2um/C3Rp/DNy5ivLjV0+2F4vMEckIiYhSEIw4wp3EHiteH4C6VrGjpd6XcTvcapa2l1pMJYEyjaou1P8AuN5n4LXlFv8AEDxFa6dPYR6tcraTlzJHkHJf7/PUZyc4NNsPH3iHS2002mrXNv8A2akkdpsfHkrJneF9m3HP1oA9RHwr8KzappmlWy31w+ufaXtL9X/dW6Ru8aBv72ShZvQMKpaL8N/Dd/b+F4ZIrxry60q61e8dJBiRIfPxFGvYt5S8153p3jzxBpOkvpdnqlxb2Mm7dCrDHzDDYOMjPfFQW3jDWrO6066h1CeKfT4zFaSBsGFSSSo9ss35mgD3K61Cz0qx+HSaWkPh7T7zSbia6uL6JZZUjju5mfkj5iQuB7ECvDPF2rWmu+KdW1Cwshp9jc3MksNsD/q1ZiQv5EVY1bx5r+vzQS6hqc11JBC9tEZAPkjcksoGOAdx/OsHOfpTAKKKKACiiigAooooAKKKKACiiigAooooAK474q/8izB/1/Wv/o1K7GuO+Kv/ACLMH/X9a/8Ao1KTA7Bfuj6f1NLSL90fT+ppaEAUUUUwCiiigAooooAKKKKACiiigAooooAKKKKACgdRxn2oo/SgD6Enx4h8NTWenRw20lrpkRutCvrMKUVUUm4ilA5J+9g+tZfiH4e+H9N1jWri+try/X+1IdPhhs2CGPdEGLtgfgBXmMnxE8STaWNOfWLlrIKE8rI+6Oi5xkjjpmui8GfFq40G9v7vUXvr66upEld4pwglKjADAj26jmgDt9d+EPhPSdXt9FVL5728F95dwZhsi8l2CfL3zt5rg/C9mtz8JvGhEImuIrmzKsEyyrvYE+w6Vj658SNf1vXpNWe/khn8yZ4VQ4EKysWdF9ssazNB8Uat4ZuJJ9KvpLKSQbXKYwwz3B4NID2LWPCehXFjHfapYTzDS/DNlMbazIiZ3aZlO7j0b+VeafEzwvaeE/FH2SwaU2c1tDeRJP8A6yMSRq2xvcZxVzw98WNZ0NNfmN1NNqeqQxw/a2YFk2urdCMfw4xXJ6tq15ruozX2oXMl3dzHLzSnLNxj+lAFSiiimAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAI3SihulFBSI7X/Un/AK6P/wChGpaitf8AUn/ro/8A6EalpIkKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXHfFX/kWYP+v61/9GpXY1x3xV/5FmD/AK/rX/0alJgdgv3R9P6mlpF+6Pp/U0tCAKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFACN0oobpRQUiO1/1J/66P8A+hGpaitf9Sf+uj/+hGpaSJCiiimAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVx3xV/5FmD/r+tf/AEaldjXHfFX/AJFmD/r+tf8A0alJgdgv3R9P6mlpF+6Pp/U0tCAKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFACN0oobpRQUiO1/1J/wCuj/8AoRqWorX/AFJ/66P/AOhGpaSJCiiimAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVx3xV/5FmD/r+tf/RqV2Ncd8Vf+RZg/wCv61/9GpSYHYL90fT+ppaRfuj6f1NLQgCiiimAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAjdKKG6UUFIjtf9Sf+uj/APoRqWorX/Un/ro//oRqWkiQooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFcd8Vf+RZg/6/rX/wBGpXY1x3xV/wCRZg/6/rX/ANGpSYHYL90fT+ppaRfuj6f1NLQgCiiimAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAjdKKG6UUFIjtf9Sf8Aro//AKEalqK1/wBSf+uj/wDoRqWkiQooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFcd8Vf+RZg/6/rX/0aldjXHfFX/kWYP8Ar+tf/RqUmB2C/dH0/qaWkX7o+n9TS0IAooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAI3SihulFBSI7X/Un/ro/wD6EalqG1YeWw/6aP8A+htU1JEhRRRTAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK474q/8izB/1/Wv/o1K7GuO+Kv/ACLMH/X9a/8Ao1KTA7Bfuj6f1NLSL90fT+ppaEAUUUUwCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAEbpRQ3SigpENmv7lj38x/wD0I1PUNvhY39PMf/0I1LuHrUki0UcetFUAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFGaACiiigAooooAKKKKACiiigAopNopcUaAFFFFABRRRQAVx3xV/5FmD/AK/rX/0aldjXHfFYj/hGrcHr9vtcf9/VpMDsF+6Pp/U0tNT7o+n+NOoQBRRRTAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAQ0UtFAz0z40fCvwxb/ABE1sw6c9urSq5jgupo0BKKSQquAMkk8DvXnknw40BW4tbj/AMDZ/wD4uiioEQTfD7Q1xi3uB/2+z/8AxdQ/8IDovP7i4/8AA2f/AOLooqwIf+EF0dc4huP/AAMn/wDi6RfA+j7seTcf+Bs//wAXRRSAf/wgmjf88bj/AMDZ/wD4ug+BdG/543H/AIGz/wDxdFFSBLB4B0VgxMFwen/L7P6f79Sr8P8AQz/y73H/AIGz/wDxdFFAB/wr/Q9o/wBHuP8AwNn/APi6T/hANE/597j/AMDZ/wD4uiigA/4V/ofX7Pcf+Bs//wAXR/wgGif8+9x/4Gz/APxdFFAB/wAK/wBE/wCeFx/4Gz//ABdOPw/0QA/uLjr/AM/s/wD8XRRTQCL8P9Dbdm3uP/A2f/4uj/hXuh/8+9x/4Gz/APxdFFORYf8ACv8AQ93/AB73H/gbP/8AF0H4faH1+z3Gf+v2f/4uiikIT/hANE/597j/AMDZ/wD4unL8PtDLL/o9xyf+f2f/AOLooqiRo+H+ibQfs9xnn/l9n9f9+l/4QDRP+eFx/wCBs/8A8XRRQAn/AAgGif8APvcf+Bs//wAXQ3w/0Tb/AMe8/wD4GT//ABdFFBSGf8IBon/Pvcf+Bs//AMXSr4A0T/n3uP8AwNn/APi6KKQDv+Ff6GvS3uB/2+z/APxdH/CAaJ/z73H/AIGz/wDxdFFSSKPh/on/AD73H/gbP/8AF0H4f6Hj/j3uP/A2f/4uiigBP+EA0T/n3uP/AANn/wDi6P8AhX+if8+9x/4Gz/8AxdFFADj8PtDH/Lvcdcf8fs/p/v0h+H+h8/6Pcf8AgbP/APF0UUFif8K/0Pn/AEe4/wDA2f8A+LoHw/0P/n3uP/A2f/4uiirEH/Cv9E/597j/AMDZ/wD4uj/hANE/597j/wADZ/8A4uiigkP+Ff6G3Bt7j/wNn/8Ai6rX3wx8OajGsdzZTTIHDhWvJ+oIwfv0UUgLA+H+hqSBb3GB0/02f/4ul/4QDRP+fe4/8DZ//i6KKEAf8IBon/Pvcf8AgbP/APF0f8IBon/Pvcf+Bs//AMXRRTAP+EA0T/n3uP8AwNn/APi6P+EA0T/n3uP/AANn/wDi6KKAD/hANE/597j/AMDZ/wD4uj/hANE/597j/wADZ/8A4uiigA/4QDRP+fe4/wDA2f8A+Lo/4QDRP+fe4/8AA2f/AOLoooAP+EA0T/n3uP8AwNn/APi6P+EA0T/n3uP/AANn/wDi6KKAD/hANE/597j/AMDZ/wD4uj/hANE/597j/wADZ/8A4uiigA/4QDRP+fe4/wDA2f8A+LpG8AaJx/o9x1/5/Z//AIuiigBT4A0TJ/0e4/8AA2f/AOLo/wCEA0T/AJ97j/wNn/8Ai6KKAD/hANE/597j/wADZ/8A4uj/AIQDRP8An3uP/A2f/wCLoooAP+EA0T/n3uP/AANn/wDi6P8AhANE/wCfe4/8DZ//AIuiigA/4QDRP+fe4/8AA2f/AOLo/wCEA0T/AJ97j/wNn/8Ai6KKAD/hANE/597j/wADZ/8A4uj/AIQDRP8An3uP/A2f/wCLoooAP+EA0T/n3uP/AANn/wDi6P8AhANE/wCfe4/8DZ//AIuiigA/4QDRP+fe4/8AA2f/AOLo/wCEA0T/AJ97j/wNn/8Ai6KKAD/hANE/597j/wADZ/8A4uj/AIQDRP8An3uP/A2f/wCLoooAP+EA0T/n3uP/AANn/wDi6P8AhANE/wCfe4/8DZ//AIuiigA/4QDRP+fe4/8AA2f/AOLpyfD/AEM/8u9x/wCBs/8A8XRRQA4/D7Q8f8e9x/4Gz/8AxdKvw90L/n3uP/A2f/4uiikAf8K90L/n3uP/AANn/wDi6nh+HOgNjNrcH/t9n/8Ai6KKQF2H4Y+HWIzaXH/gdcf/ABdFFFUB/9k=)However, while this shrinks the button in the Y-direction, the button still fills up all the space in the X-direction:
* In order to fix this, we actually need to indent the entire Button widget for “Login” and put it inside of a **RelativeLayout** widget:
* In order to fix this, we actually need to indent the entire Button widget for “Login” and put it inside of a **RelativeLayout** widget:

            RelativeLayout: **🡨 🡨 🡨**

                Button:

                    text: "Login"

                    on\_press: root.login(root.ids.username.text, root.ids.password.text)

                    size\_hint: 0.3, 0.5

* ![Graphical user interface

  Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4Sd6RXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjEyOjI1IDA4OjQ1OjA0AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM0NwAAkpIAAgAAAAM0NwAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArB8f/8AIh+JP+wdcf8Aos1vVg+P/wDkQ/En/YOuP/RZoAZ8O/8AkQfDv/YPg/8AQBXQ1z3w7/5EHw7/ANg+D/0AV0NABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAI3Sm05ulNqWUh9FFFMkKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWR4u/wCRX1f/AK9Jf/QDWvWR4u/5FfV/+vSX/wBANAB4P/5FPR/+vWP/ANBFa9ZHg/8A5FPR/wDr1j/9BFa9ABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUyn0yqiNDm6U2nN0ptZsaH0UUUyQooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFYPj/wD5EPxJ/wBg64/9Fmt6sHx//wAiH4k/7B1x/wCizQAz4d/8iD4d/wCwfB/6AK6Gue+Hf/Ig+Hf+wfB/6AK6GgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAEbpTac3Sm1LKQ+iiimSFFFFMAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArI8Xf8ivq//XpL/wCgGtesjxd/yK+r/wDXpL/6AaADwf8A8ino/wD16x/+gitesjwf/wAino//AF6x/wDoIrXoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACmU+mVURoc3Sm05ulNrNjQ+iiimSFFFFMAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArB8f/wDIh+JP+wdcf+izW9WD4/8A+RD8Sf8AYOuP/RZoAZ8O/wDkQfDv/YPg/wDQBXQ1z3w7/wCRB8O/9g+D/wBAFdDQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFACN0ptObpTallIfRRRTJCiiimAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVkeLv+RX1f8A69Jf/QDWvWR4u/5FfV/+vSX/ANANACeDf+RS0f8A69Y//QRWxWP4O48KaP8A9esf/oIrYoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACmU+mVURoc3Sm05ulNrNjQ+iiimSFFFFMAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArB8f8A/Ih+JP8AsHXH/os1vVg+P/8AkQ/En/YOuP8A0WaAGfDv/kQfDv8A2D4P/QBXQ1z3w7/5EHw7/wBg+D/0AV0NABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAI3Sm05ulNqWUh9FFFMkKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWR4u/5FfV/+vSX/ANANa9ZHi7/kV9X/AOvSX/0A0AN8I/8AIq6R/wBesf8A6CK2ax/B/wDyKejf9esf/oIrYoGwooooEFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFMp9MqojQ5ulNpzdKSs2NDqKKKZIUUUUwCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACsHx//AMiH4k/7B1x/6LNb1YPj/wD5EPxJ/wBg64/9FmgBnw7/AORB8O/9g+D/ANAFdDXPfDv/AJEHw7/2D4P/AEAV0NABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAI3Sm05ulNqWUh9FFFMkKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWR4u/5FfV/wDr0l/9ANa9ZHi7/kV9X/69Jf8A0A0AN8H/APIpaP8A9ekf/oIrZrH8Hf8AIpaP/wBesf8A6CK2KBIKKKKBhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABTeadXoXw78K+HNS8F+MvEXiO31a8j0U2aRW2lXkdsXaeRk+Znhl7qMcVURnnjdKRWB6HNd1B4JT4gapP/wg2j30Gm2durXT65qkG2Ak43NPshjVW+UAHknIB7COw+DvjPVPE+p+HoNGkOs6ZALy8t5J4o/LgJjxJvZgpT96h3KcYO7oKykNHF+/aiu+0P4E+OPEUaPYaPHOsl4+nxE3tsn2iZH2usO6T98FJwWTcoxknFQaD8GfGXiSze60/RTOnnSW8Ya5iie5lQkOkCO6tMQR0jDdaom1ziKP/wBVd3D8J7+T4TXHjr7ZZLBDqAsvsLXduswXa5LFTJu37k/1ezcVywGBmrXw58KeG9S8F+MPEXiSHVrqHRDZpFbaXdx2xbz5GQ7meGXuo6AUxnnVHbPavVfEnwVbVrXwxqfgu11CW11uzubtrPWJIo5bJLeRUeSSf92hhOVw52DPGOBXMyfCHxYviUaCdK/077L9v3/aofs32XOPP+0bvK8vtv37c8ZqbiOQo9+1dc3wl8WL4mOgHSCNSW0F+++eJYBakAifz93l+Xggb923JHNRaz8L/FOh/wBrG/0zyf7Lt4ry6YTRsot5XCRSoytiRCzKu6PIGetUBy1HpXU6h8L/ABTpl3Nb3OktBPb6SuuSrLJGNtmyqRLnd6Mo2feyduM1a1f4O+L/AA/oL6zf6M0NjDHHLcKtxC01ukmNjSwq3mRA7lwZFGcj1oA4z/8AVR7d67ib4I+NoYdCc6LvbXfKOmQx3MUktwssfmKyxh94QpyXICrghiCMV07fB3SfB/g/Sda8c3l1YfaNVvLSVNKuILtZooraKSNYWTcgdpXdCxYquOV4OQDyD0oru/ij4N0jwzb+GNR0Y38Flr2nm/XT9VdHuoAJpIhuZFVWRgm5W2jIOMVwlABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVg+P/wDkQ/En/YOuP/RZrerB8f8A/Ih+JP8AsHXH/os0AM+Hf/Ig+Hf+wfB/6AK6Gue+Hf8AyIPh3/sHwf8AoAroaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooARulJSt0ptSykPo9KK0PDOj/APCSeKtG0b7TDYrqV7DaPdT/AHIRJIFLt7DOTTIsZ/8A+qivU/iB4J8F+HV8QaVAfEOg+JNJcLDBryo8eoqJAjhFSNTEwB8wAs4IUjPTOdqHwX1668aeIdD0fTpwNG5uX1S4trcW69hLJ5hhUknAxIc0DPPe+O9HtXoMXwB8etc3kEuiLC1lHay3T3F5bxxwJcB2gZ3aRQoYI3JwM4B6iuU8TeFdS8H61daTrNq1nqMJXzIWZTwwDKwYZUggghhwQRTAyaK9i/4U5ov/AA0xe/Dw3V8NGhvZ7ZbjzE+0lUiZwS2zbnKjPy9DXLeH/gl418UaPp2qaZowuLPUUkeyb7bbo90I3eORYozIHdgyMNqgnoehFAHDUUrKVZlYFWU4KnqCKSgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArI8Xf8ivq/8A16S/+gGtesjxd/yK+r/9ekv/AKAaADwd/wAilo//AF6x/wDoIrXrH8H/APIp6P8A9esf/oIrYoFawUUUUDCiiigAooooAKKKKACiiigAooooAKKKKACvT/hd8TH+H3w98d2+na1c6Lr+oHTxYtZmWOR1SWRpQHThcKw6kdT1NeYUqketNDR6roPjqHxt4W8WaH4x8UT2epard2WoRa5qCzXQdrdJY/JmKBpNpWXKkBsFOQM1u6h8TvDLf8JFp9tfTSWcPgePw3ZXcsDp9vuEuIJCQgyUTAkC7yPlRc814dmkOG71nJXKWh9LfCGysfHWqfBS4mvLvS7zQb1bYWL6fcSR3ipfPN5sMir5YALsj7mXbsJwelYknirwf4m1Pwdqmo+J20GTwndzLLZLZyzPeRi9luUktmQFA7CTad7KMqDk145pvjHX9F0u50zT9d1Kx026B8+zt7ySOGTI2klAwU8eoOfxrI3VRB6lqvjbRfF3w+8bWk12NG1G88Tpr9pZyRyOJ42SZGiVkXAKmVT8+0EA+gFQ/DH4lN8Pvh748h07W7rRPEOoHT1sXsjIkjqkzmUB0GFAVh1YcE9cV5k1JTA9Q+H/AI4tNY8VaxqXjvWpL/U5tNeHTtU16OTUoYLkOhQyxEMWTaJABtcBmBKnFd7q/wATPDdx4i0FrPxfaweV4UbRri5Xw8qac0xu5ZXimtFix5LoykNGhIYISAcgfOa0lAHu48b+EbTx5JJo2uQ6LazaELC4uf7NlutInuTJmRGtpg0otmUDGF3K6hgoHR1h438A2/xVtIZLjyfCGp6G2ka7PYw3C24kYM++3ifMixiRICFIHIYgDIx4NRQB714o+PNj4n+H+r3U/HjK/wBRayEPlnYNJN0b4Jv7Ymwm3P3faneIvHnhGPxB8QfGVl4gfU7zxZYXVvBoLWkqzWj3LKX86Rh5RWM7tvlsxJVOF7eB0ooA9vtfid4et/iR4X1CS8lbS08I2+gXl5BE/m2krab9lkdVbBPluxJ29QDjOc1ieKtU8MaT8K9D8Lab4kg8Q3UHiG41K5kWxnihETwQIpxIqlhmI5AAOcgDufK27U1l3UAdR8TPFFz4z8d61q11fQ6j59y4into3ihMQOIxHG/zJGEACqcYAAPSuYoooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACsHx//wAiH4k/7B1x/wCizW9WD4//AORD8Sf9g64/9FmgBnw7/wCRB8O/9g+D/wBAFdDXPfDv/kQfDv8A2D4P/QBXQ0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAjdKbTm6U2pZSH1e8Ny6XDr2nnWoLiXR1uE+1JZuEmMJI3lCQRuxnAI56HgmqNFMk9x17xro1r8Nde0C+8cyeP4JkjTQ7KexnEumyCVCZTLOo8r92roY4mZW3dcVs+JfEmg/E7UPipZ2+pz2el6nqdjqdprq2FxLbkxRyxiKZUjaRN3mMVbZ95cd6+d81oaH4l1fwteG80XVb7SLtlKG4sLl4H2n+HcpBIyBwfSiw7Hv3xs1rSvD/hvxD4Ua+b+0ZdK8KRQxtA8ckot7SXzAwIPlkCSLKuc/NjORXk/xe8Saf4p8RaXdabcG6jh0LTbSWRkZT50VpHHIPmHZlYZHB7ZHNcfeXs+oXUl1dTPcXMjFpJpm3O5PJJbqSfWoGoEfQs/xC8Fp8Wbz4sx+IHe8uFluh4Z+wyi5F08BTyzJjyvKDsTvDFiB9zNSaX/AMI9pvhH4G+INe8TLof9jw3N41rFazSzXKx6pPJthKLtDkoR85QDg544+dat3OqXd5aWdtPdTTW1mhS2hklLJCpYuVQEkKC7MxCjGSTTAn8SayNe8QanqYhEAvLua5EIOQgdy20ew3Y/CqFRnpT80FIbRRRQSFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVkeLv+RX1f8A69Jf/QDWvWR4u/5FfV/+vSX/ANANACeDf+RS0f8A69Y//QRWxWP4N/5FLR/+vWP/ANBFbFIAooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFMp9MqojQ5ulNpzdKbWbGh9FFFMkKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWD4//AORD8Sf9g64/9Fmt6sHx/wD8iH4k/wCwdcf+izQAz4d/8iD4d/7B8H/oAroa574d/wDIg+Hf+wfB/wCgCuhoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBG6U2nN0ptSykPooopkhRRRTAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKyPF3/Ir6v8A9ekv/oBrXrI8Xf8AIr6v/wBekv8A6AaAE8G/8ilo/wD16x/+gitisfwb/wAilo//AF6x/wDoIrYpAFFFFMAooooAKKKKACiiigAooooAKKKKACiiigAplPplVEaHN0ptObpTazY0PooopkhRRRTAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKwfH/wDyIfiT/sHXH/os1vVg+P8A/kQ/En/YOuP/AEWaAGfDv/kQfDv/AGD4P/QBXQ1z3w7/AORB8O/9g+D/ANAFdDQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFACN0ptObpTallIfRRRTJCiiimAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVkeLv+RX1f/r0l/8AQDWvWR4u/wCRX1f/AK9Jf/QDQAng3/kUtH/69Y//AEEVsVj+Dv8AkUtH/wCvWP8A9BFbFIAooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFMp9MqojQ5ulNpzdKbWbGh9FFFMkKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWD4/8A+RD8Sf8AYOuP/RZrerB8f/8AIh+JP+wdcf8Aos0AM+Hf/Ig+Hf8AsHwf+gCuhrnvh3/yIPh3/sHwf+gCuhoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBG6U2nN0ptSykPooopkhRRRTAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKyPF3/Ir6v/16S/8AoBrXrI8Xf8ivq/8A16S/+gGgBPB//Iq6P/16Rf8AoIrYrH8H/wDIq6P/ANe0f/oIrYoGwooooEFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFMp9MqojQ5ulNpzdKbWbGh9FFFMkKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWD4//wCRD8Sf9g64/wDRZrerB8f/APIh+JP+wdcf+izQAz4d/wDIg+Hf+wfB/wCgCuhrnvh3/wAiD4d/7B8H/oAroaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooARulNpzdKbUspD6KKKZIUUUUwCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACsjxd/yK+r/wDXpL/6Aa16yPF3/Ir6v/16S/8AoBoAPB//ACKej/8AXrH/AOgitesfwb/yKWj/APXrH/6CK2KQBRRRTAKKKKACiiigAooooAKKKKACiiigAooooAKZT6ZVRGhzdKbTm6U2s2ND6KKKZIUUUUwCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACsHx//wAiH4k/7B1x/wCizW9WD4//AORD8Sf9g64/9FmgBnw7/wCRB8O/9g+D/wBAFdDXPfDv/kQfDv8A2D4P/QBXQ0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAjdKbTm6U2pZSH0UUUyQooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFZHi7/AJFfVv8Ar0l/9ANa9Y/i7/kV9V/69Jf/AEA0AHg3/kU9G/69I/8A0EVsVkeDv+RT0f8A69Y//QRWvUoAoooqgCiiigAooooAKKKKACiiigAooooAKKKKACmU+mVURoc3Sm05ulNrNjQ+iiimSFFFFMAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArB8f/APIh+JP+wdcf+izW9WD4/wD+RD8Sf9g64/8ARZoAZ8O/+RB8O/8AYPg/9AFdDXPfDv8A5EHw7/2D4P8A0AV0NABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAI3Sm05ulNqWUh9FFFMkKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWR4u/5FfV/+vSX/wBANa9ZHi7/AJFfV/8Ar0l/9ANACeDf+RT0b/r0j/8AQRWxWP4O/wCRS0f/AK9Y/wD0EVsUEoKKKKCgooooAKKKKACiiigAooooAKKKKACiiigAplPplVEaHN0ptObpTazY0PooopkhRRRTAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKwfH/8AyIfiT/sHXH/os1vVg+P/APkQ/En/AGDrj/0WaAGfDv8A5EHw7/2D4P8A0AV0Nc98O/8AkQfDv/YPg/8AQBXQ0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAjdKbTm6U2pZSH0UUUyQooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFZHi7/kV9X/AOvSX/0A1r1keLv+RX1f/r0l/wDQDQAeDv8AkUtH/wCvWP8A9BFa9Y/g/wD5FPR/+vWP/wBBFbFArWCiiigYUUm4etGR60gFooopgFFFFABRRRQAUUUUAFFFFABTKfketMqojQ5ulNp1JUMaHUUgzS0yGgooooGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFYPj/AP5EPxJ/2Drj/wBFmt3cPWsLx983gTxJjn/iXXH/AKLNADPh3/yIPh3/ALB8H/oAroa574d/8iD4d/68IP8A0AV0NABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAI3Sm08g46U3afSpZSHUUgz6UtMhoKKKKYwooooAKKTIoyKLMBaKKKACiiikAUUZpNw9aYC0UUUAFFFFABRRRQAUUUUgCiiimAUUUUAFFFFABWR4u/5FfV/+vSX/ANANa9ZHi7/kV9X/AOvSUf8AjhpAQ+B7jzvBeiybdv8AocRIzx9wGt7bRRQAu0UbRRRTAZ5IoEY60UVAEm33/Skx/nFFFWWGP84ox/nFFFABj/OKMf5xRRQAY/zijH+cUUUAGP8AOKXb7/pRRQBGYx1o2iiikiB+0Umwf5FFFORYbaNtFFABto20UUAG2jbRRQAbaNtFFABto20UUAG2jbRRQAbaNtFFABto20UUAG2jbRRQAbaNtFFABto20UUAG2jbRRQAbaNtFFABto20UUAN8kev6Vz/AI+n8nwLrqKMmazmiOTwMxkZx+NFFQBV+Ht+f+EJ0NNnMdlDHnPXEYFdD9sP939aKKsgPth/u/rR9sP939aKKAD7Yf7v60fbD/d/WiigB32z/Z/8eo+2f7P/AI9RRQAfbP8AZ/8AHqPtn+z/AOPUUUAH2z/Z/wDHqPtn+z/49RRQAfbP9n/x6j7Z/s/+PUUUAH2z/Z/8eo+2f7P/AI9RRQAfbP8AZ/8AHqPtn+z/AOPUUUAJ9vb+7+tH29v7v60UVLKQ77cf7v60z7Yf7v60UUhh9sP939aPth/u/rRRVgH2w/3f1o+2H+7+tFFAB9sP939aPth/u/rRRTsQH2w/3f1o+2H+7+tFFIBPt3+x+tH2w/3f1oooAT7c3939aPtx/uD86KKgBftf+x+tJ9u/6Zj86KKG2Av24/3B+dL9sP8Ad/WiiqAPth/u/rR9sP8Ad/WiimAn2v8A2f1o+1/7P60UVAC/bD/d/Wj7Yf7v60UVQB9sP939aPth/u/rRRTAPth/u/rR9sP939aKKAE+1/7P61k+NbzyvBWuzbMmOyn+XPB/dsaKKgD/2Q==)This results in this:
* The “0.3” value gives it 1/3 of the available space in the RelativeLayout.
* In order to get this button in the center of the RelativeLayout, we need to use “**pos\_hint**”:

            RelativeLayout:

                Button:

                    text: "Login"

                    on\_press: root.login(root.ids.username.text, root.ids.password.text)

                    size\_hint: 0.3, 0.5

                    pos\_hint: {'center\_x': 0.5, 'center\_y': 0.6} **🡨 🡨 🡨**

* I ended up playing around with my **size\_hint** values a bit more to make it look nicer to me.
* Stylizing Lower Buttons: Now we still need to stylize the “**Forgot Password**” and “**Sign Up**” buttons down below.
* Now we still need to stylize the “**Forgot Password**” and “**Sign Up**” buttons down below:

        GridLayout:

            cols: 2

            size\_hint: 0.2, 0.2 **🡨 🡨 🡨**

            Button:

                text: "Forgot Password?"

            Button:

                text: "Sign Up"

                on\_press: root.sign\_up()

* ![Graphical user interface, application

  Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SyURXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjEyOjI1IDA5OjAwOjE3AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMyOAAAkpIAAgAAAAMyOAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMjoxMjoyNSAwODo1OTozNQAyMDIyOjEyOjI1IDA4OjU5OjM1AAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAGugAAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgBAACWAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A7DWNYsbu8hlj1JUVVGCG9ydy88//AFquXXifS55FK3igAf3h/jXhV8XCcZRV9X2PdVCTjBWWiM/WtasdR8jytQRfL6gsPz61rReLtLSFEa8DFVAJJHP61vDMaUZNtP7jzlldZVHK618x/wDwmGk/8/S/mP8AGj/hMNJ/5+l/Mf41p/alHs/uNP7Pq9194f8ACYaT/wA/S/mP8aP+Ew0n/n6X8x/jT/tSj2f3B/Z9XuvvK194p0+4ttkF+kcgdWViR2OfWs6PXYo/k/tlTGrEqc5bkt3J680v7Uo9n9wf2fV7r7zXh8X6YkKrJeK7AYLZHP61J/wmWk/8/S/mP8aP7Uo9n9wf2fV7r7w/4TLSf+fpfzH+NH/CZaT/AM/S/mP8aP7Uo9n9wf2fV7r7w/4TLSf+fpfzH+NH/CZaT/z9L+Y/xo/tSj2f3B/Z9XuvvD/hMtJ/5+l/Mf40f8JlpP8Az9L+Y/xo/tSj2f3B/Z9XuvvHp4s0yQEpPux1xiims0ovuJ4Gqux8xePT/wATTT/+wfF/WuTyfWunCfwYmOKf76QZNGT610HPdhk+tGT60Bdhk+tGT60Bdhk+tGT60Bdhk+tGT60Bdhk+tGT60Bdhk+tGT60Bdhk+tGT60BdnpnwrybXVM/34/wCTUV8tmH+8y/rofRYJXoROe8e/8hTT/wDsHxf1rlK+hwn8GJ4mK/jSCiug5wooAKKACigAooAKKACigAooA9N+FX/Hnqn+/H/JqK+Xx/8AvMv66H0uC/3eJzvj3/kKaf8A9g+H+tcpX0GE/gxPCxX8aQUV0HOFFAD4grTIH4UsAfpXZJ4OgllvUl+02qxXbRxv5RfdGB6cdyvOccj1oAJvAkFqE+06nIjkneq227CgP0Ocbvk6Z/HisFNKSbRI7qFZGdrswlscBNoIJHbrQB0dv8PUuLyGIX1z5ck4t+LTLhvMCF9u7/V8/ez2PFUJ/C9t9ijmF2yTyWnnpGsPynbbrK2WLZBIJ6Dr2A6AHKUUAFFABRQB6b8Kv+PPVP8ArpH/ACaivlsf/vMv66H0uC/3eJzvj3/kKaf/ANg+H+tcpX0OE/gxPCxX8aQUV0HOFFABVgX12HjcXU4aIbY28w5Qeg9KAG/arjy1j8+TYpJC7jgE9fzp0N9d28EkEN1NHDL/AKyNJCFf6gdaALNhruo6bdC6t7hvPChVkf5ioHTGemKpm5nIAM0mAMAbjwMYx+XFAEVFABRQAUUAem/Cr/j01T/fj/k1FfL5h/vMv66H0uC/3eJzvj3/AJCmn/8AYPh/rXKV9BhP4MTwsV/GkFFdBzhRQAUUAFFABRQAUUAFFABRQB6b8Kv+PTVP9+P+TUV8vmH+8y/rofS4L/d4mL4usLrVPEWlWVjA89zLYRCONByx+Y/0qp/wrnxh/wBC/e/98j/GvoMJ/BieFiv40hf+FceMf+hevf8Avkf40n/CuPGP/QvXv/fI/wAa6DnsH/CuPGP/AEL97/3yP8aX/hW/jH/oXr3/AL5H+NAB/wAK38Zf9C9e/wDfI/xo/wCFb+Mf+hevf++R/jQAf8K38Y/9C9e/98j/ABo/4Vv4x/6F69/75H+NAB/wrfxj/wBC9e/98j/Gj/hW/jL/AKF69/75H+NAB/wrfxj/ANC9e/8AfI/xo/4Vv4y/6F69/wC+R/jQAf8ACt/GP/QvXv8A3yP8aP8AhW/jH/oXr3/vkf40AH/Ct/GP/QvXv/fI/wAaP+Fb+Mf+hevf++R/jQB1HwygltU1i3nQxzRTIjoeqsNwI/Oivl8ev9pl/XQ+lwX8CJa0j/ksPhP/AK9Y/wD0B69733is2IiRuxyB6t0/DbX0GE/gxPCxX8aQI9+xUNEqZODkdKRJb+RyDb7BgHkZroMCa1NzI7CeIIoVSPrjn9at7PegYbDRsNAg2GjYaADYaNhoANho2GgA2GjYaADYaQpxQB8/eFf+Rk8Xf9hJ/wD0OSivl8e/9pl/XQ+kwX8CJX0b/ksfhL/r1j/9AevpEIPSvoMJ/BieFiv40g2Cl2j0roMA2D0o2j0oANgo2igA2ijaKADaKNooANoo2igA2ijYKADYKQpkcUAfO/hf/kZvF/8A2E3/APQ5KK+VzD/eZf10Po8F/Aj/AF1INEGfjN4RH/TtH/6A9fS+2vosJ/BieHiv40g20ba6DANtG2gA20baADbRtoANtG2gA20baADbRtoANtG3mgD5v8Mf8jP4v/7Cb/8AoclFfLZh/vMv66H0mC/gR/rqZkOq2Wh/FPwxqWozeTaW9pG0sm0ttG1x0HPevav+F0/D/wD6Dn/ktL/8TX0OE/gxPCxX8aQv/C6fh/8A9Bz/AMlpf/iaP+F0/D//AKDn/ktL/wDE10GAf8Lp+H//AEHP/JaX/wCJo/4XT8P/APoOf+S0v/xNAB/wun4f/wDQc/8AJaX/AOJo/wCF0/D/AP6Dn/ktL/8AE0AH/C6fh/8A9Bz/AMlpf/iaP+F0/D//AKDn/ktL/wDE0AH/AAun4f8A/Qc/8lpf/iaP+F0/D/8A6Dn/AJLS/wDxNAB/wun4f/8AQc/8lpf/AImj/hdPw/8A+g5/5LS//E0AH/C6fh//ANBz/wAlpf8A4mj/AIXR8P8A/oO/+S0v/wATQAf8Lp+H/wD0HP8AyWl/+JpD8aPAH/Qc/wDJaX/4mgDyPwddQ32t+Kbu2ffBPfmWNsEblZnIPPsaK+XzD/eZf10PpMF/u8f66nG+NoJrnW9NhgieWVtPiCpGpZj97oBWH/wjut/9AfUP/AV/8K+gwn8GJ4WK/jSD/hHtb/6A+of+Az/4Uf8ACPa3/wBAfUP/AAGf/Cug5xf+Ed1v/oD6h/4DP/hSf8I7rf8A0B9Q/wDAZ/8ACgA/4R3W/wDoD6h/4DP/AIUf8I7rf/QH1D/wGf8AwoAP+Ed1v/oD6h/4DP8A4Uf8I7rf/QH1D/wGf/CgA/4R3W/+gPqH/gM/+FH/AAjut/8AQH1D/wABn/woAP8AhHdb/wCgPqH/AIDP/hR/wjut/wDQH1D/AMBn/wAKAD/hHdb/AOgPqH/gM/8AhR/wjut/9AfUP/AZ/wDCgLB/wjut/wDQH1D/AM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gives the lower GridLayout 20% of the overall space:
* We also added some padding and spacing.
* Lower Button Colors & Opacity: Now, let’s make these two lower buttons look like **links**.
* We’ll start by changing the background color to ***black*** in **RGB** with an opacity of 0:

            Button:

                text: "Forgot Password?"

                background\_color: 1, 1, 1, 0 **🡨 🡨 🡨**

* Now the button has a black background with white text.
* However, when we click on the button now, we can’t visually tell if anything is happening with it.
* To fix this, we add an ***opacity*** attribute:

            Button:

                text: "Forgot Password?"

                background\_color: 1, 1, 1, 0

                opacity: 1 if self.state == 'normal' else 0.5 **🡨 🡨 🡨**

* What this does is, the text is 100% (1) opacity normally, but will go to ½ opacity when clicked.

            Button:

                text: "Forgot Password?"

                background\_color: 1, 1, 1, 0

                opacity: 1 if self.state == 'normal' else 0.5

                color: 0.1, 0.7, 1, 1 **🡨 🡨 🡨**

* Lastly, we change the color of the button (the text, in this case) to *blue*.
* This gives it 10% of *red*, 70% of *green*, **100%** of ***blue***, and 100% opacity.
* We also add all these same attributes (copy/paste) to the “**Sign Up**” button.
* Password Stars: One other thing we might want to do in the Login page is this: currently when we type in a password it’s visible in the text box, but it would be better if it ***showed stars*** in place of characters. We do this by adding the **password** attribute and setting it to **True**:

            TextInput:

                id: password

                password: True **🡨 🡨 🡨**

                hint\_text: "Password"

* ![Graphical user interface, application, Teams

  Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SYWRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjEyOjI1IDA5OjE3OjQxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMzOAAAkpIAAgAAAAMzOAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAMCAgMCAgMDAwMEAwMEBQgFBQQEBQoHBwYIDAoMDAsKCwsNDhIQDQ4RDgsLEBYQERMUFRUVDA8XGBYUGBIUFRT/2wBDAQMEBAUEBQkFBQkUDQsNFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBT/wAARCAJkAxwDASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD9B/tWxuTg18hb7j7Rc/bxIdQEpFwZl+bzP4uD0yc8emK9Um/a0+DyybW+JfhMEcEHWrfg/wDfVc1rXx4/Z/8AEN811qHj3wjNcMCC6a/HGSPQ7HGR7HNeRmGDeMUbO1j6/IM5p5TOTqRvzLfsdl+zvfTyWuuszO1gJIvK3fdD/Pvx+Hlj8K7Tx5dOz2Hlg+WVkL45BJ27c/rXmunftTfBPSbKO1s/iN4OtbeMYWKLWbcAHufvc066/as+DNwhSX4l+EpFPb+2YOf/AB/iufFYB18A8GnZvqefXzFVsfLFqNkzcZpNr/ZlIuF5iIBzXqX2xTGOK+f7P9pL4JadMZbf4k+E1c931yF8fm5q437V/wAIGP8AyU3wj/4OYf8A4uuHI8lqZXCcak783boY5hjIYxJRWx49qbXMl3J9sR/trSs1yGBz5pOGGDzjI4Hp9a9w/ZzvpRDrpD/6EZYmUn/nqQxkx2xgpwO4rjNe+NH7P/iS8+13/wAQPCM1wV2l015IiR6HZIuR7HNbml/tNfBXRrWO2sfiR4NtLdFwscOrwKPc/e612YbL6lDF+1b0Pg8PldSji/bOWh799uo+3V4f/wANYfB7/oqPhH/wcQf/ABVL/wANYfB//oqXhH/wcwf/ABdfTH1B7d9s+lJ9tHrXiP8Aw1h8Hv8AoqPhL/wcwf8AxVB/ax+D+f8AkqHhL/wcwf8AxVQZtHt/273pPtg9a8S/4aw+EH/RUvCX/g5g/wDi6T/hrD4P/wDRUvCf/g5g/wDi6VybHt/2yl+2V4h/w1h8Hv8AoqPhL/wcwf8AxVH/AA1h8H/+ipeEv/BzB/8AFVaNLHt32z3pftwrxD/hrD4P/wDRUvCX/g5g/wDiqT/hrD4P/wDRUfCP/g5g/wDiqzaKPb/tvvR9u968Q/4aw+EH/RUfCP8A4OYP/iqP+GsPhB/0VHwj/wCDmD/4qgD2/wC2e9O+2D1rw7/hrD4P/wDRUfCP/g5g/wDiqX/hrD4P/wDRUvCX/g5g/wDiqpAe4fbB60fbB614f/w1h8H/APoqXhL/AMHMH/xVH/DWHwf/AOipeEv/AAcwf/FVYHuH2wetH2weteH/APDWHwf/AOipeEv/AAcwf/FUf8NYfB//AKKl4S/8HMH/AMVUAe4fbB60fbB614f/AMNYfB//AKKl4S/8HMH/AMVR/wANYfB//oqXhL/wcwf/ABVWB7h9sHrR9sHrXh//AA1h8H/+ipeEv/BzB/8AFUf8NYfB/wD6Kl4S/wDBzB/8VUAe4fbB60fbB614f/w1h8H/APoqXhL/AMHMH/xVH/DWHwf/AOipeEv/AAcwf/FVYHuH2wetH2weteH/APDWHwf/AOipeEv/AAcwf/FUf8NYfB//AKKl4S/8HMH/AMVUAe4fbB60fbB614f/AMNYfB//AKKl4S/8HMH/AMVR/wANYfB//oqXhL/wcwf/ABVWB7h9sHrR9sHrXh//AA1h8H/+ipeEv/BzB/8AFUf8NYfB/wD6Kl4S/wDBzB/8VUAe4fbB60fbB614f/w1h8H/APoqXhL/AMHMH/xVH/DWHwf/AOipeEv/AAcwf/FVYHuH2wetH2weteH/APDWHwf/AOipeEv/AAcwf/FUf8NYfB//AKKl4S/8HMH/AMVUAe4fbB60fbB614f/AMNYfB//AKKl4S/8HMH/AMVR/wANYfB//oqXhL/wcwf/ABVWB7h9sHrR9sHrXh//AA1h8H/+ipeEv/BzB/8AFUf8NYfB/wD6Kl4S/wDBzB/8VUAe4fbB60fbM14f/wANYfB//oqXhL/wcwf/ABVH/DWHwfB/5Kj4S/8ABzB/8VVgZV/4ub4ZfG7xr4quknfQbqSKx1AoMqsi2Ec8DE44JxNHgnkypWN4N8Sap4Rj1+yk1G9g8Qaxr1vJIlnBFJO0j2EM8saPKyQxhGZhufPC9CWzW9eftKfA3UPtC3Pj/wADXEdyVeeOXUbYiZkIKM3zckbRjPTC9gMQaz+0J8BPEMVxHqPjjwDeJcSiWaOa/tXV3C7VYgnBwBtHXjFQA6x+Kmva54d0K+ubhTq8Fv4gV7t7aESFoM+UwxuC5VBuCEq3PJU12ngfxB4nsPGGg2Osa02uWmuaE+qyeZaLGLaVDEpjj2KvyESdGzgp15rirb9oX4C2trFbp478BJDEJFSNL60VUEmfMwAQMMD83HPfNXI/2nPglFNbzJ8RvBSTW8Rt4ZV1S2DxxHGY1IbIUlRxnBwMjgUwPfP7Uh9R+TUn9qQ/3h+Rrwz/AIau+D3/AEVDwh/4OIP/AIqj/hq74Pf9FQ8If+DiD/4qkB7l/aUXr+ho/tKL1P5GvEf+Gr/g7/0VHwj/AODmD/4qj/hq/wCDv/RUfCP/AIOYP/iqq4Ht39pRev6Gj+0ovX9DXiP/AA1f8Hf+io+Ef/BzB/8AFUf8NX/B3/oqPhH/AMHMH/xVMD27+0ovX9DR/aUXqfyNeI/8NX/B3/oqPhH/AMHMH/xVH/DV/wAHf+io+Ef/AAcwf/FUAe3/ANpQ9iR/wFqT+0ovX9DXiP8Aw1f8Hf8AoqPhH/wcwf8AxVH/AA1f8Hf+io+Ef/BzB/8AFUrge3f2lF6/oaP7Si9f0NeI/wDDV/wd/wCio+Ef/BzB/wDFUf8ADV/wd/6Kj4R/8HMH/wAVTA9u/tKL1/Q0f2lF6n8jXiP/AA1f8Hf+io+Ef/BzB/8AFUf8NX/B3/oqPhH/AMHMH/xVAHt39oQ+v6NR/aEPr+jV4j/w1f8AB3/oqPhH/wAHMH/xVH/DV/wd/wCio+Ef/BzB/wDFUrge3f2hD6/o1H9oQ+v6NXiP/DV/wd/6Kj4R/wDBzB/8VR/w1f8AB3/oqPhH/wAHMH/xVFwPbv7Qh9f0aj+0ovU/ka8R/wCGr/g7/wBFR8I/+DmD/wCKo/4av+Dv/RUfCP8A4OYP/iqEB7c2qQ+jf98mk/tKHsf/AB014l/w1h8Hf+io+Ev/AAcwf/FUn/DV3wd/6Kj4R/8ABzB/8VQybHt/9pQ+v/jpo/tKL1/Q14h/w1f8Hf8AoqPhH/wcwf8AxVL/AMNYfB3/AKKj4S/8HMH/AMVSQ1oe3f2lF6/oaP7Sh9f/AB014j/w1f8AB3/oqPhH/wAHMH/xVN/4au+D3/RUfCP/AIObf/4qplqM9y/tKH+//Oj+0ov75/WvDv8Ahq74O/8ARUfCP/g5g/8AiqP+Gr/g7/0VHwj/AODmD/4qlFWGme3/ANqR/wB79DR/akPr+hrw/wD4at+Dn/RUfCP/AIOYP/iqP+Grvg7/ANFR8I/+DmD/AOKptEpnuP8AasX979GpP7Ui/vH8jXh3/DV3wd/6Kj4R/wDBzB/8VS/8NW/Bz/oqPhH/AMHMH/xVD1C9z3P+0ov7/wDOk/tOL+9+hrw3/hq34Of9FR8I/wDg5g/+Ko/4at+Dn/RUfCP/AIOYP/iqiRd0e3/2pF/e/RqP7Ui/vfo1eIf8NXfB3/oqPhH/AMHMH/xVH/DV3wd/6Kj4R/8ABzB/8VUmZ7h/akH979Go/tSL+9+hrw//AIau+Dv/AEVHwj/4OYP/AIqk/wCGrvg7/wBFQ8I/+DmD/wCKrZSA9x/tSL+9+ho/tWL+9+hrw/8A4au+Dv8A0VHwj/4OYP8A4qj/AIau+Dv/AEVHwj/4OYP/AIqk3cg9w/tSP+9+ho/tSP8Avfoa8P8A+Grvg7/0VHwj/wCDmD/4qj/hq74O/wDRUfCP/g5g/wDiqCke4f2rH/e/Q0f2nD6/o1eH/wDDV3wd/wCio+Ef/BzB/wDFUf8ADVvwc/6Kj4R/8HMH/wAVTRZ7j/acPr+jUf2nD6/o1eHf8NW/Bz/oqPhH/wAHMH/xVH/DVvwc/wCio+Ef/BzB/wDFVYHuP9pw+v6NSf2pF/eP5GvD/wDhq34Of9FR8I/+DmD/AOKo/wCGrPg5/wBFR8I/+DmD/wCKoA/BrUv+Qhdf9dW/mar1Y1H/AJCF1/11b+ZqvWRkFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFF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FFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAu6kNFFUtQLGof8AIQuf+urfzNV6saj/AMhC6/66t/M1XqQCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACinYFNqojLGof8f8Adf8AXVv5mq9WNQ/4/rn/AK6t/M1XpMQUUUUgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAXdSGiiqWoFjUf+Qhdf9dW/mar1PqH/H/c/wDXVv5moKT3AKKKKQBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFOwKbVRGT6h/x/3P8A11b+ZqCp9Q/4/wC5/wCurfzNQVIgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKltbWe+uYre2hkuLiVgkcUSlndicAADkkntTs3sBFRXQ6v8O/FXh+zlu9T8Navp1rEQJJ7uxliRCTgZZlAGSQK5/aeOOtVKDjo0SpKWqYlFKFYqSFJA6nHSjy2wTtOB1OKkoSilCluACaktbSe9uora3hknuJXCRwxqWd2JwAAOSSe1NRbAioroNZ+Hvinw7b+fqvhvVtMg3bfMvLKWJc+mWUc1geW27G05xnGKqUJQ3ViYyjL4XcSijafSl2kdRzjNRYoSiilCM3RSecdPWkAlFLsbGdpx9KnsdOutUuBb2dtNdzlWYRQIXYhVLMcDnAUEn0AJqoxcnZA9NyvRWpP4U1q10eLVptJvodLlbbHeyW7rC59A5GCeD3rLpyhKO6EpKWzCiiioGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUVZ0/TbvVruO1srWa7uZDtSGCMu7H0AHJqoxcnZCbsrsrUVpaj4Z1fR70Wd/pd5ZXZG77PcQNHJj12kZxwfyrO2N/dP5U5RceglJS2YlFLtYjIU4+lT2OnXep3H2eztprqfaz+XDGXbaqlmOB2CgknsATSUW3Yor0VZh0y8ubO5u4bWaW1tdvnzpGSkW44XcwGFyeBnrVbB9KcotAFFFFQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAu6kNFFUtQJ9Q/4/wC5/wCurfzNQVPqH/H/AHP/AF1b+ZqCpAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACup+Fp/4uR4XH/UTth/5FWuX69au6VqU+j6ha6haSeVd2sqzQyYB2spBBwfcelbUpqnNSeyZMo88XHuj13WvDXhvxV8UodItvEOqzyahrYs54prGOGONGkIJVhM+WGAACoFZmqaXoXizwr4h1DTdCXw7NossBj2zySCaKRypEm8n5wQG4Kj73y151c69fXmqzalJcN9tluGummU7T5rNkuPQ5ra8QfE7xB4qsVtNRvIpIBIJnWO2ih82QKQHk2KvmMASNzZPPuc+tHGUZycqsdXf+vkea8LUjyqEtFb+vmtD1XxR4f8I2PjPxZbHwzHbWPhm0kkFok85e8kaWGJTIxbIUby2FKnkjOSKZ/wAIb4YuvB9l4pk0EQouh3Gotp8NxIqzzfb/ALMgJLbgiZzhSDheuea4Hwx8RJo/HE2u6vqF2k14sizzWUULFt4wQ8Tjy3BHVSQDxzkVp+MPjVd32o6NNoc81qmmWUliJJoYk+0I7uzh4VBjCESFdnIwBXc8ThpRcraq6tbz3+44fq+JThCLem7v5O/3s6/4b6bo1j42+H2v2ekR26au1xE9lJLIUgkjfHmRHduKFTjD7ud/XjHmPgm6ju/iroVxFaw2UUmrwFbaBmKRgzL8o3ktgZ43E5x1qvN8TNfu9e07WJNQKX2nlfsbRRpEluFzgIigKoyegGPastfEl3F4hh1mKSGG+iuFuUaGFY0EikEMEUBQMgcAAe1eZWxMZKPIkrP9F+qPQpYacZSc3e6t+L/Ro9c8ReKPD3hPWvGEFpqWq6rf6gs9i1rPaRw20e6QbiSJX3bcHACjlR0xU3in4daG3hTxQYbXTNO1fw/BCxtbW7uLi63G4jidbhinksf3p5jI5XHNeJ6lq1xq+pXN/dSeZc3ErTSNjGXYkk46dTXU33xi8U6hpmoafcajHJa38ax3X+jRb7jaysru+3czgovzsd3UZ5OeqOMo1L+3V+xh9SqU+X2Uu1/lb9DtPH3hfw+2h303h7S7WS1sBCiXFvdSLeICwDG7gk53FmC7kVUBIAJyML4w8M+F4dBvr3RdIgns9Le2CXMF7IlzgvhxewudwYk7Q0SqoOBk1wWsfFTxHr+lyaff6gJbeTb5uyFI5Jyv3DLIoDSEdtxPODRqvxQ8Ra9psthf6j5ttKF84LFGj3BXJQyuoDSFTyC5POKTxOFd/d3Lhh68bXl1/wAj1PW/g/oskevWmnQv/aOo3H23w9D5pbFoBE+zBbLZjnB3HP8Ax7t71l+INJ8I+FYptWttDt9Y0+71WfT7e3u7iZEghgWMFwUcNvcvuyWIGDgV59Y/E7xLZappGqQ6vJDfaPbCy0+UbQYItpXaBt5G1mGTzyOeKb4f+I2s+GbWWHT7uOOOZ0keOaCOdQ6fddQ6kKwzwRz6mm8VhfsQszOOFxKfvVLr+v8AgfiehzeCfD3hSy8dXVzo7aw2m3OnxWKXM0kYhW4jlcrJs27mXaoxxyuenFanhax0Lwn4003RrbSVa7bQJbqTVZJnV5JZtOeXoW2CMCTaPlzkZJI4rxuTxtq89nq0E99JcDVZ47i8km+eSWRC5Vi5yc5kbPPOea1tN+L3ifS9MisbfUgIYYHtYzJDG7rEwIaMOyltvzHC5wPSqpY6jGSly2a8vNjlhK8oSjKV76fgl+dzoIfHMlv8P9ZuNQ1VtU1PWYU0eDT2kDLbW8JibzGXscKqx/RzyRz5VV2bUp7jTYLJ3Q28EkkiKsahgX27iWxlvuLgEnGDjGeaXpXj4itKs1zdD06VKNK/L1CiiiuQ2CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK7/4S64dAvtbnmsLy606bT2tb24sDtmtY5HQCRT0HzbVIPBDEZ5rgK2PDfijUvCeo/bdLu2tZtjRtgBlkQ9UZWyrKeOCCOBxXTh5qnVUm7WMq0PaU3Due1aLpMl5d+GfJ1y71TwzNDqgtN6NbXNvItoTJG7KS2DhMKHKkbuOSDR8I+FvDFjcfDyx1PQl1qXxRJvnuHuZIfKDXTQLGmw46ISxIPDYrgLj4ueJrjVLK/OoKk1mksdusdvEkUKyqVk2xqoUFgTkgZ6HOQCOt+GfxY0rwXpmlPe3WpT3Gn3BuksY7a3ljkO77qzviW3DAYbZuyOe+B7scVRnLllaz69tv+CeNLD16ce/kvn/AJo6HR/B/hK31rwPpMugm6k8Q3MltNffaZVkhX7bJCjxhWxuCqPvBh8vTk1wXwZhK/EwwRAuxsNTjjUDJYmynAAHck9qxZPiTrjanol+l2q3OiztcWLeUp8p2mac8EHcPMYn5s9fwrFsdYudP1NNQtJmtLyKXzopomKtG4OQVOcjB7+wrjqYmlzxlHSzT/BX/E66eGq8koTldyTX4u34WO48GqW+EnxD+X5WfTxux385jj64BrsfGHg7w1NrnxE0Ky0NdNk0KKW8tLyO4dyNjoGifccFSpIXAGCMc5ry3XviNrniS0S0vrxTZJIJfs1vBHBG78/OwRV3Ny3zHJ5PPNdH8TvjNf8AjfWNe+yMLbR9UufOaFoI0mdFbciSOo3MAQPlLEDAwOBjX6zRlSal2t59f1ZlPD1vbJx0Td3rt8K/JM8zooorwD2AooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAop2BTaqIyfUP+P8Auf8Arq38zUFT6h/x/wBz/wBdW/magqRBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUuaSigAooooAKKKKadgCiiikAUUUUAFFFFABRRRTAKKKKQBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAKaSiigYUUUUCCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAXdSGiiqWoE+of8AH/c/9dW/magqxqH/AB/XP/XRv5mq9SAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUvFG0noCaqIzS1y3WC6ZlLFpCzncc87qzKKKkQUUUUAFFFFWAUUUVABRRRQAUUUUAFFFFABRRRQA7FGKKKYxtFFFNCCiiimAUUUVLAKKKKcQCiiihgFFFFSAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRVgFFFFQAUUUUAFFFFWAUUUUAFFFFABRRRQAUUUUAFFFFABRRRUAFFFFABRRRQAUUUUAFFFFMAooopAFFFFUgCiiimA6iiigsKKKKACiiigAooooAKKKKQDaKKKZAU7cV//AF0UVIH/2Q==)This sets all input characters in the Password text-box to appear as stars:

## Graphical user interface, application Description automatically generatedStylizing the Sign Up Page:

* Now we want to add some padding and spacing to our Sign Up Page.

<SignUpScreen>:

    GridLayout:

        cols: 1

        padding: 20, 20 **🡨 🡨 🡨**

        spacing: 20, 20 **🡨 🡨 🡨**

## Making the Buttons Interactive:

*Note: Included in the resources for this lecture is a file called “****hoverable.py****”, which we’ll need*.

### Graphical user interface, application, PowerPoint Description automatically generatedAdding Spacing:

* In this lecture, we want to add some padding, stylize the logout button (and enable it to turn red when hovered over), and add a scroll-bar to our quote output area.
* We added **padding** and **spacing** of 30, 30 each.

### Making Hoverable:

* He noted that there isn’t a native function for Kivy to implement a hover function, or that there isn’t an easy way to do so.
  + Luckily, someone developed a helpful sub-module called **hoverable.py** which we can put in the same directory as our **main.py** program.
* We don’t have to change anything in the “hoverable.py” file, we just need to import from it:

from hoverable import HoverBehavior **🡨 🡨 🡨**

* This imports the **HoverBehavior class** from the hoverable.py file.
* Then we create a *new***class ImageButton()** in our **main.py** file…

class ImageButton(): **🡨 🡨 🡨**

* …and we change our “button” callout for said button in **Kivy** to **ImageButton**.

        ImageButton: **🡨 🡨 🡨**

            text: "Logout"

            on\_press: root.log\_out()

* We set our **class ImageButton()** to inherit from **HoverBehavior**, **Image**, **ButtonBehavior**, and we just need to set this to **pass**, because it just gets the three parents working together (***note, see end of lecture for fix***):

class ImageButton(**HoverBehavior**, **Image**, **ButtonBehavior**): **🡨 🡨 🡨**

    pass **🡨 🡨 🡨**

* This means we also need to import these **parents** into our program up top:

from hoverable import HoverBehavior

from kivy.uix.image import Image **🡨 🡨 🡨**

from kivy.uix.behaviors import ButtonBehavior **🡨 🡨 🡨**

### Switching to Logout Button Images:

* In **Kivy** where we changed our callout to **ImageButton**, we no longer need the **text: “Logout”** field, because we’ll be using our created image instead, and this image contains the text “Logout”.

        ImageButton:

            on\_press: root.log\_out()

            source: 'logout\_hover.png' if self.hovered else "logout\_nothover.png" **🡨 🡨 🡨**

* We also will add a **source** field to control the hovering function:
* This tests a Boolean condition “hovered” found in the **hoverable.py** sub-module, and it points to our two .png images to be used. It now looks like this:

Graphical user interface, application

Description automatically generated

### Resizing Logout Button:

* Currently our Logout button is too big. This is because we have 5 widgets total on this page, so each of them is getting 20% of the available area. So we’re going to do some size-hinting:

        ImageButton:

            on\_press: root.log\_out()

            source: 'logout\_hover.png' if self.hovered else "logout\_nothover.png"

            size\_hint: 0.35, 0.35 **🡨 🡨 🡨**

* Graphical user interface

  Description automatically generatedThis makes it look like this:

### Repositioning Logout Button:

* It’s still in the center, so if we want to push it to the right, we can use the **pos\_hint** attribute. In order to use this correctly, we also have to place our **ImageButton** *inside* a **RelativeLayout**:

        RelativeLayout: **🡨 🡨 🡨**

            ImageButton:

                on\_press: root.log\_out()

                source: 'logout\_hover.png' if self.hovered else "logout\_nothover.png"

                size\_hint: 0.35, 0.35

                pos\_hint: {'center\_x': 0.93, 'center\_y': 0.8} **🡨 🡨 🡨**

* Graphical user interface

  Description automatically generatedNow our window looks like this:
* However, so far when we click this **Logout image**, ***it doesn’t work***. It turns out that it’s because of how we *ordered* the parents in our **ImageButton** class in Python; **ButtonBehavior** should’ve been first:

class ImageButton(**ButtonBehavior**, HoverBehavior, Image): **🡨 🡨 🡨**

    pass

* And now it works. In the next lecture, we’ll focus on the **scrollable area**.

## Making a Scrollable Area:

* The display for our quote isn’t optimized at this point; a long quote will be cut off. Or, we can wrap the text within the borders of the widget.
* ![Graphical user interface, application

  Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SWoRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjAxOjIxIDE0OjQxOjUzAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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sNDhIQDQ4RDgsLEBYQERMUFRUVDA8XGBYUGBIUFRT/2wBDAQMEBAUEBQkFBQkUDQsNFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBT/wAARCAKJAOYDASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD9UKTqvFRyzbfrioWuPLUk/dUEnv0ouMnMgHemtINvB5rLk1ywRirXsAYdV8wZqH+39PZiBf23/f1f8ae4tDX84/3qa02cjdWM2vaf/wA/9vn081f8ajOv2A5+3W//AH8H+NFh6G1uHrRu96xf+Eh0/wD5/wC3B/66AUn/AAkGn/8AQQt/+/gosHobe4etG73rE/4SDTxn/T7f/v4KRvEGnf8AP/B/38FAG7u96N3vWD/b+n/8/wDB/wB/BR/b+n/8/wDB/wB/BSA3t3vRu96wf+Eg07/n/g/7+Cj/AISDT/8An/h/7+CgRvbvejd71g/8JBp//P8Aw/8AfwUf8JBp/wDz/wAH/fwUAb273o3e9YP9v6f/AM/8H/fwUf2/p/8Az/wf9/BQM3t3vRu96wf7f0//AJ/4P+/go/t/T/8An/g/7+CgDe3e9G73rB/t/T/+f+D/AL+Cj+39P/5/4P8Av4KAN3d70qyc8NzWD/wkGn/8/wDB/wB/BS/8JBp//P8AW/8A38FAjf8AOf1/SnifLDPArn18RafuH+nQf9/BUi+ILBjgX0Of+ugoGb/mL609WHrWHFrVnIwUXsBJ7eav+NaEcnIweetMC9RUAkOOtFUFz5ruv2v54rK48VReBb9vhdb6k2nS+Lvt8IK4n8g3AtcbjCJCBu3Z4zt6gd98Rvignh7x74E8HC0klPi2S8RbxJQBCttCZmBGMtuAx1r56uPhX8S7D4JX/wABbbwfH/ZMl+8EfjI6jbm2/s6S7+0mVoSwl80BjHs2EZ5zjr6p8WfCeq6l8ZPhBrdlaedpOgyaqt9cCVB5ImszHFwSGbLDHAOO+KgR6lJfxabZtK0i21tEpdiTtVB3rzxf2j/DraibRRqbW4O03oiHlfXG/dj/AIDUvxNhudW8A6ra2YZ52jR/LXq6rIrOv4qGH4184+dH5YfOBnG3HOf7uPr2614WY42thaijTWh+hcO5Jg8yw861edmm1/wT7NttcF5bxz285lt5VDpIrnDDHWs/WfGsGjERu0s1wygiGHlsZ684A/E1xvwtW40jwFpFrdKyyojtsbqitIzKv4KVH4Vm+Ig6+ILyVwR5+1oz3ICAEfmDXJnWYV8Dl8cRRjeTt8j57D4GjUx08O5e6r2ffU9E0PxxHrDOiPPDKo3GGZsNj14JB/CtO78RLY2stxcXBghjUu8jyEBQB1Oa8o8Pu/8AwkNoyf8ALHcZP90owA/Mjir/AMVo7zWPh/q1pY5+0OiMAuCWVZFZl/FQR+NLI8zxGOwEsRWhaSODOMPDATkqHvJIZ/w014dGoGAy6j9mX/l8MIEX1Hz7se+2vSbfXhfW0dzbXRmgmUOkkbZDKe+a+EZFYfNlgAdpYDkE8bcf0r6o+E0d1pHw90e1vQ4uFR22v1VTIzID6YUjj2rry7H1sVUlGpG1j43Lcwr4qpKNWNkekHVrj/nrJ/31Sf2tP/z1k/77rG+3j0pPty/3a94+gLuteMLfw7psuoanqK2FjCVElxcS7UXcwUZJ9SQPxpdY8YQeH7eKfUdRjsoZZUhjeaYKHdiFVR6kkgCvLvj9HDrXwt1DT5lJgurzT4ZFDbcq19AGGe2QTXjnie+1PxPYabo2p/aHPgG+0+C5uJDtF3dtfQxQS9Oc22ZO+DMPSgD7D/tK52g+bJz0G/rVDRPFsfiLTYL/AE66kubSbPlyKWGcEg8EA9j2r5h0P4nXd98XtGWz1W6U3GtXdhe6deau8sqwqk+FkshGIoF3RoUbfvIxnOSRJ4QvdX8bTaZb3vijW4FXw1JeA21+0bPcC6mRZHYckhQAR0IwCCABQB9T/wBrT9pX/wC+6P7WuP8Anq//AH1/9auA+GviS78RfDnwtqt+269vtLtbmZsYBd4lZiB9SfwPauj+2e9AG5/a1x/z1f8A76/+tR/a1x/z1f8A76/+tWH9s96PtnvQBuf2tcf89X/76/8ArUf2tcf89X/76/8ArVh/bPej7Z70Abn9rXH/AD1f/vr/AOtR/a1x/wA9X/76/wDrVh/bPej7Z70Abo1af/nq3/fVL/akzcGV/wA6wftnvR9soA22ujLGyyuXU9VY5BrQ8P3A8qSEElIZGVCeeCA3/s2PwrlPthrW8N3BK3Z/6a9f+AJQB2CyZUc0VQSY7eTRTuBUvLnqucrmvMfjX8S9C+E3ge68VeI7xrHRLCVDczpE8pQOTGvyqCT8zqOB3rv7uTivlH/gpFJu/ZD8bj3tP/SqOkBgf8PJ/gMvH/CXXR4/6BN3z/5BrNP/AAUE/Zv+1/av7ZQ3fT7R/YFx5h/4F5Oa/HBqKicI1PjVzaFapTvySav2P2fX/gpN8BFHHiy6H/cJu/8A41UVx/wUc/Z+ulCT+J5pU67ZNHumH6w1+MtFEoRmnGSuiIzlFpxP2bt/+Cjn7P1mmyDxRPCh5Kx6PdKPy8qpf+Hk3wE/6G26/wDBTd//ABmvxfoojCMVZLQJTlJ8zep+xTft/fs4fbvto1tRd53ed/YFxvz7t5OTWmP+CkvwH/6G24P10m7/AD/1NfjFRRGEY/CrGUYxjsj9nv8Ah5L8B/8Aobbj/wAFN5/8Zo/4eSfAf/obbj/wU3n/AMZr8YaKso/Z3/h5J8BjwfFtxj/sE3n/AMao/wCHkfwF3ZPiy4J/7BV5j8B5XH+NfjFRQB+z3/DyT4DdR4suM/8AYJvAT+UX+NN/4eRfAYHP/CXXOc5/5BV4fp/yy+v51+MdFAH7Of8ADyL4C9f+EsuM/wDYJu//AIz/AJ9BS/8ADyP4DH/mbbj/AMFN5/8AGa/GKigD9nf+HkPwF/6G64/8FN5/8Zo/4eQfAT/obrj/AMFN5/8AGa/GKigD9nf+HkHwE/6G64/8FN5/8Zo/4eQfAT/obrj/AMFN5/8AGa/GKigD9nf+HkHwE/6G64/8FN5/8Zo/4eQfAT/obrj/AMFN5/8AGa/GKigD9nf+HkHwE/6G64/8FN5/8ZpP+HkHwF/6G+4/8FN5/wDGa/GOigD9nP8Ah5F8Bv8Aobrj/wAFN5/8Zr6S+CPxK0T4q+CLfxT4auzfaJqEjtbXDQvEXCnY3yuAwwyMOQOlfzo1+4P/AATelK/si+CFz2u//SqWgD67hl+TpRVK3mOzrRQBTvH218o/8FGp1b9knxsuec2n/pTHX1PqL7c18nf8FFM/8MneNfra/wDpTHQB+KjUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAV+2//AATlk2/sleCeP+fv/wBKZK/Eiv2u/wCCdMmP2T/BQ7f6V/6UyUAfWdvL8lFQ2jAx0UAR6i3f618of8FEmz+yf41/3rX/ANKY6+rdQ+6K+UP+CiP/ACaf40+tr/6Ux0AfizRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFLtIOMUhOa0bHw/qOo2N3fW9lPNZWe37ROiEpFuOBuPbPv6VpCEqjtFXFKUYq7ZnbTRXpXjz4QyeE9H8G3djeSatdeIoRIlqkGGVisbKi4J3E+aF47r74Hnuoafc6XeTWl5BJbXULbJIZVKujDqCD0IroxGErYWTjVjZq34q6/A56GJpYmPPSlda/g7P8SvRRRXGdIUUe1GD6UxhX7U/8E7WH/DKHgsZ5/0r/wBKZK/Fav2m/wCCdv8Ayal4M+t1/wClMlIR9X2efLNFFl80fFFABqH3a+UP+CiP/Jp/jP62v/pTHX1fqFfJ/wDwUS/5NP8AGf1tf/SmOgD8WqKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBRw1e7a40uj/st6ClhC0UGpag7X8yvjcyvJsUr1wRGnsDGOuc14SG216p8Kvi1YeG9JvPDPijTm1nwneN5j28fyyxScfMpBU4O1cjI6ZBHIb3cqq0qdScKjtzqyfb+tjx8zpVakKc6S5uSSk13Sv+V7/In+JHxUsvE+g+ALXRze2up+H4Aks0gEeJQkIDRlWJ4aInPB5FdB8erBNU+JHhCXULNLW61TT7ObUIVyuZC7IwbkHIC7exAAos9R+Cng0W2rWaat4ivghkjsboBUhlGCvmfKoIzkcbx1yDwK8l8beNtS8eeIrrWdSkDXEzcKgwsajoq9Tge5JPUknJr18ZWjTpSVeanObjotUlFdX6HBhaLnWi6NNwhBS1lo25O+i7X118rHTR/DTOuahDeQXWnwrdBIUIwY4GZwbklv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do that by adding a **text\_size** attribute to the Label widget for our quote in .kv:

        Label:

            id: quote

            text: ""

            text\_size: **self.width**, **self.height** **🡨 🡨 🡨**

* Now our quote just barely fits inside of our widget, no matter what size we make our window.
* However, we might want to give our text more room to stretch vertically. To do that, we set self.height to **None** instead:

        Label:

            id: quote

            text: ""

            text\_size: self.width, **None** **🡨 🡨 🡨**

* Now the height of the text isn’t bound by the widget. However, for thin windows and long quotes, this text can now overlap other widgets 🡪🡪🡪
* So how do we fix this? We can *change the height of the label to match the height of the text*:
* We start by changing the Label’s **size\_hint\_y** to **None**, which allows it to ignore the standard 20% of the total area to be ***100 pixels high by default***:

        Label:

            id: quote

            text: ""

            text\_size: self.width, None

            size\_hint\_y: **None** **🡨 🡨 🡨**

* This is the same as adding an attribute **height: 100**. Setting height to 400 almost completely covers up the widgets up above. However, this isn’t what we want; we want the height to be dynamic, based on the length of the quote:

            Label:

                id: quote

                text: ""

                text\_size: self.width, None

                size\_hint\_y: None

                height: **self.texture\_size[1]** **🡨 🡨 🡨**

* This **texture\_size** is a ***tuple*** containing the ***width*** and the ***height*** of the text, so taking the second element of the tuple **[1]** sets this relative to the ***height of the text***.
* Our Label is now ***dynamic***, changing size based on both the size of the window *and* the length of the quote.
* ![Graphical user interface, application, PowerPoint

  Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SVGRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjAxOjIxIDE1OjA1OjEwAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM5NAAAkpIAAgAAAAM5NAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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sK5s7qKSigQ7UFwprxH9p8D/hQPxF/7AV9/wCiWr3PUV+TPvXiP7UC/wDFgfiN/wBgK+/9EtQB+B1FFFABRmiigBdxo3GkooAXdSbiaKKACiiigApd3sKSigBd5o3nrmkooANx9aXeT15pKKAF3HvzRuNJRQAu9vWjccY7UlFAC7j35NG40lFAC7iaSiigAooooAKKKKAPoj/gn7/ydh4JH+1c/wDpNLX7c6Yv3a/Ef/gn5/ydj4K+t1/6TSV+3WmD7tAGtt96KWigCxqIO2vE/wBqJD/wz/8AEbjJPh++bAH/AEwb/wCvXuWoRHb+Ncn4k0Oz8QaVe6bqNrDe2F3C9vcW9xGJI5Y2UqyMp4ZSCQQeDmgD+cVl2kjkY65ptfrHr/8AwS0+F9xqF1dW+qeIrOGaZ5Uto7mEpCGOQiloixUdBuJbA5JPNYsn/BLn4bKD/wATvxH/AN/4P/jNAH5bUV+nc3/BMf4dR5xrXiD8Zof/AIzVN/8Agmp8PV4/tjX/APv9D/8AGqYH5oUV+lR/4Js/D4Z/4nGvf9/of/jVRn/gm78Pu2sa7/3+h/8AjVID82aK/SX/AIdvfD//AKC+vf8Af2H/AONUf8O3vh//ANBfXv8Av7D/APGqAPzaor9Jf+Hb3w//AOgvr3/f2H/41R/w7e+H/wD0F9e/7+w//GqAPzaor9Jf+Hb3w/8A+gvr3/f2H/41R/w7e+H/AP0F9e/7+w//ABqgD82qK/SX/h298P8A/oL69/39h/8AjVH/AA7e+H//AEF9e/7+w/8AxqgD82qK/SX/AIdvfD//AKC+vf8Af2H/AONUf8O3vh//ANBfXv8Av7D/APGqAPzaor9Jf+Hb3w//AOgvr3/f2H/41R/w7e+H/wD0F9e/7+w//GqAPzaor9Jf+Hb3w/8A+gvr3/f2H/41R/w7e+H/AP0F9e/7+w//ABqgD82qK/SX/h298P8A/oL69/39h/8AjVH/AA7e+H//AEF9e/7+w/8AxqgD82qK/SX/AIdvfD//AKC+vf8Af6H/AONUv/Dt34ff9BjXv+/0P/xqgD82aK/Stf8Agmz8PGx/xOde/wC/8H/xqpo/+Cafw8dgDrOv9f8AntD/APGqYH5nUV+n0f8AwTF+HLddZ8Q/9/4P/jNXrf8A4Ja/DaZfm1vxIPpPB/8AGaQHx/8A8E+Y2k/az8FBQWObrgDP/LtLzX7eabCRivmj9nn9h34f/ADxRJ4i0n7fq2sGMpb3GqyJIbQEEOYgqLtZgdpY5OMgEBnDfUVinTigC15dFT7aKANG8h8xfesK8tTzzRRQBh31v/CQPyrEubQ84FFFAGbPp+e1UZbPb2H5UUUAQmx6/IPyqI2J5+WiigBv2M+g/IUfYz6D8hRRQAfYz6D8hR9jPoPyFFFAB9jPoPyFH2M+g/IUUUAH2M+g/IUfYz6D8hRRQAfYz6D8hR9jPoPyFFFAB9jPoPyFH2M+g/IUUUAH2M+g/IUfYz6D8hRRQAfYz6D8hR9jPoPyFFFAB9jPoPyFL9hPoPyFFFAEsdic/dqxHY/7I/KiigC/b2JbGRW1a2m3aNtFFAGzaQHgYIres7bIGB2oooAueSfSiiigD//Z)However, there’s still one more thing left to do. We need to add space for a **ScrollView** widget:

            ScrollView: **🡨 🡨 🡨**

                Label:

                    id: quote

                    text: ""

                    text\_size: self.width, None

                    size\_hint\_y: None

                    height: self.texture\_size[1]

* This causes the widget size to appear static (other buttons don’t move around when quote sizes change). It also adds a scrollbar to the right side of the widget, which reacts to mouse clicks, mouse wheel, and I’m also guessing touchscreen 🡪🡪🡪
* When the text is short, there is no scrollbar, and when the text is long, the scrollbar appears.

# Section 28: Making an Android APK File from the Kivy App:

## Note:

From course instructor:

“““This section is a bonus section that covers the instructions on how to convert the Python code to an APK file, which is a file that can be installed in Android devices.

**Important note:**

As always, you will see the step-by-step instructions in the videos, but please note that creating an APK file involves other third-party tools, and the process also depends on other system configurations that are not related to Python. Therefore, it can sometimes be difficult for me or David to troubleshoot student issues related to the creation of the APK file.

That said, feel free to post a question in the Q&A.  Keep in mind that our support might not be as good as it is in the case of issues with Python code.”””

## Preparing the Environment for Deploying the App to an Android Phone:

* **py 🡪 apk**
* Currently, our app has a lot of files associated with it:
  + The **main.py** file that controls the main functions of our app.
  + The **design.kv** file that controls ***styling***.
  + The **hoverable.py** file that we use for our “logout” button.
  + Our **.png** files for the “logout” button
  + The **users.json** for storing login information.
  + Our folder full of **quotes**.
* All of these files will be ***bundled*** into one **APK file**.
* **Buildozer:** In order to make an APK file, we need to use a Python library called **buildozer** which we can install with a pip install command.
* However, the problem is that making APK files on a Windows or Mac machine is very hard. It is best to use a Linux operating system such as **Ubuntu**.
  + We’re going to use a **Virtual Machine** to accomplish this, specifically **Virtual Box** (which I already have from my Linux class).
  + We set up a virtual Ubuntu machine using Virtual Box, but if I create mobile apps in the future I’ll probably just work with my Ubuntu laptop instead.
  + We set it up with **4GB RAM**, **20GB storage**, though he did say that students could go with less if their computer didn’t have that many resources available.
* Once it was set up and all updated were downloaded, we continued.
* He noted that setting the VM’s advanced settings to “Bidirectional” doesn’t usually work (I couldn’t get it to work either; never have gotten that to work on a VM). So instead, we’re going to use **Dropbox** to transfer our files over.

## Creating an APK File for Android:

* Now that we have our files inside Ubuntu, we’re going to use the **Buildozer Python library** to create an **APK file**.
* But before we do that, we need to install some dependencies inside of the Ubuntu operating system. Buildozer needs them in order to create this APK file.
* **First step**, we want to be inside the folder where our files reside, and we want to ***right click and choose “Open In Terminal”***.
  + And remember, we have to have our main file named exactly as **“main.py”** because **Buildozer** *needs it to be named as such* in order to work.
    - He used the **rm** Linux command to *remove* a screenshot file that he had. I wonder if the file would’ve cause an issue. He also has a file called “vsc\_here.cmd” in his directory which I don’t have, though later in the video he mentioned that we can ignore/delete it because it was just some notes.
* Among these files, there’s one called “**kivy-buildozer-installer.sh**” that we can see by running the Linux command **cat kivy-buildozer-installer.sh**.
  + Running this shows a list of *dependencies* as well as instructions on where to properly clone the Buildozer repository.
  + So far, our Linux system doesn’t have Kivy installed either.
  + We run **bash kivy-buildozer-installer.sh** and enter our Ubuntu password that we set up; this will download and install the necessary packages to our Ubuntu machine.
  + He noted that this is not a stable process because there are so many dependencies involved, so sometimes we’ll get errors during installation or during APK creation.
    - ~~I got a few errors during installation; let’s home they don’t become a problem.~~ Had problems.
    - Had to run **vim .bashrc** in the Home/root folder and add the line:
      * **export PATH=$PATH:~/.local/bin/** to the end of .bashrc.
    - After that, I could run “**buildozer init**” (see below).
* We ran **python3 main.py** to open and test out our app. It ran fine just like when we created/tested it on our Windows machine.
* Next we want to do is to create a **Buildozer specification file**: we run **buildozer init** (see above for troubleshooting I had to do).
* This creates a file called “**buildozer.spec**”, which we can open in a text editor by double-clicking. In here, we can change some parameters, such as “title =” to change what our app is called.
  + We changed the name of this to “**title = How Do You Feel?**”.
  + We can also change the package name, but we left it as “**package.name = myapp**”.
  + Most importantly, we went down to the section “**Source files to include**” and we added “**json**” at the end of the list so we can include our **users.json** file. We also need to add **txt** (see error later on), which will cover the file including all of the quotes.
  + Lower in the file, a**pplication versioning** is set to “**0.1**” by default.
  + To “**Application requirements**”, we might have to add ***third party Python libraries*** that are called out in our **main.py** program in some cases, but in this case all of our libraries are either in the same local directory (such as “hoverable”) or they’re standard Python libraries (like “json”, “glob”, “random”, “pathlib/Path”, and “datetime”).
  + We also went down to “**Supported orientation**” and set “**orientation = all**”.
  + He also changed “**android.arch = armeabi-v7a”** to “**android.arch = armeabi-v8a**”, but mine seemed to have already been updated to include both.
  + We then saved and closed the file.
* After configuring the **buildozer.spec** file, we want to go back to the terminal and run the command that will ***create*** the **APK file**:
  + **buildozer android debug**
    - It prompted me to run **sudo apt-get install zlib1g-dev** and **sudo apt-get install git**, and then install a **Java compiler** first. After fumbling around on Google and typing some listed commands for that, it seemed to work. Still running as of typing this.
  + At some point it will prompt you whether or not you want to **accept the license [Y/n]**, and you say yes.
  + I got an error “**error: no acceptable C compiler found in $PATH**”,
    - so after a quick Google search, I ran the command “**sudo apt-get install build-essential**”.
  + He got an error “**Build failed: Asked to compile for no Archs, so failing**” followed by a second error message that I got as well (“**command failed… pythonforandroid.toolchain create…**” etc).
    - He said that he thought it was because we specified Android **version 8** (see above), so we replace “android.arch = arm~~e~~abi-v8a” with “**arm64-v8a**”.
    - We also may have forgotten to add the **.txt** extension (see buildozer.spec notes above)
  + After fixing these, we’re going to try running:
    - **buildozer android clean debug**. This will ensure that it won’t mess with previous efforts to install the APK package.

### Troubleshooting Process:

* **Note:** I can’t get it to compile. Might have to try this on my actual Ubuntu laptop and see if that helps.
* **Update:** Still had the same problems on my Ubuntu machine. Noticed that part of the error said that “**autoreconf not found**”, so after some searching, ran:
  + **sudo apt-get install autoconf** (“for the ‘autoreconf’ binary”)
  + **sudo apt-get install automake** (“for the ‘aclocal’ binary”; Linux said this was already present)
  + **sudo apt-get install libltdl-dev** (“which defines the ‘LT\_SYS\_SYMBOL\_USCORE’ macro”)
  + **sudo apt-get install libffi-dev** (to handle “\_ctypes not found” error)
  + One forum post/answer mentioned that one might need to reinstall Python from source to be able to read these changes, else you might run into dependency issues.
* **Update (a week or two later):** Still having issues, getting an error saying “**WARNING: pip is configured with locations that require TLS/SSL, however the ssl module in Python is not available**”.
  + Searched, tried **sudo apt-get install ~~libreadline-gplv2-dev~~ lib32readline-dev libncursesw5-dev libssl-dev libsqlite3-dev tk-dev libgdbm-dev libc6-dev libbz2-dev** and still nothing.
  + **ChatGPT** suggested running **sudo apt-get install python-openssl**, so let’s see if that does the trick. This command worked on my Ubuntu machine, but I had to run **sudo apt-get install python3-openssl** to get it to run on my VM.
  + I may have been looking in the wrong direction here. The issue might be Buildozer’s inability to fetch URL [https://pypi.org/simple/**cython**/](https://pypi.org/simple/cython/) as there’s also an error saying “**Could not find a version that satisfies the requirement Cython (from versions: none)”**.
  + A search led me to try running **sudo apt-get install libssl-dev**.
  + **It worked!!!!**
  + There is now a file in the “**bin**” directory called “**myapp-0.1-arm64-v8a-debug.apk**”.
  + Now to do it on my VM to test it.

### Streamlined Process, from Start to Finish:

* Some things that were necessary before running Buildozer:
  + **Install:**
    - **sudo apt-get install zlib1g-dev**, **sudo apt-get install git** and a **Java compiler** will be necessary to get Buildozer to run.
    - **sudo apt-get install build-essential** to get an acceptable C compiler in $PATH.
    - **sudo apt-get install autoconf** (“for the ‘autoreconf’ binary”)
    - **sudo apt-get install automake** (“for the ‘aclocal’ binary”; Linux said this was already present)
    - **sudo apt-get install libltdl-dev** (“which defines the ‘LT\_SYS\_SYMBOL\_USCORE’ macro”)
    - **sudo apt-get install libffi-dev** (to handle “\_ctypes not found” error)
    - **sudo apt-get install libssl-dev** (to handle “\_ctypes not found” error)
    - The other packages I tried during troubleshooting may or may not be necessary. Try them if needed.
    - A new machine might also need to install **vim** if it doesn’t have it.
  + **Configure:**
    - Run **vim .bashrc** in the Home/root folder and add the line: **export PATH=$PATH:~/.local/bin/** to the end of the file.
* Next, open a **terminal** from the project directory, where all our necessary files such as **main.py** and **design.kv** are.
* **Buildozer Installation and Init:**
  + Run **bash kivy-buildozer-installer.sh** to install the necessary Buildozer packages on a new machine.
    - Run **python3 main.py** to test your app one last time if you wish.
  + Run **buildozer init** to create the **buildozer.spec** file.
* **Buildozer.spec:**
  + Double-click buildozer.spec to open and edit it.
  + Change “**title = How Do You Feel?**”.
  + Keep “**package.name = myapp**” (this will go into our APK file name).
  + Go down to “**Source files to include**” and add **json**, **txt**.
  + Keep “**application versioning**” at “**0.1**” (this will go into our APK file name).
  + To “**Application requirements**”, we might have to add ***third party Python libraries*** that are called out in our **main.py** program in some cases, but in this case all of our libraries are either in the same local directory (such as “hoverable”) or they’re standard Python libraries (like “json”, “glob”, “random”, “pathlib/Path”, and “datetime”).
  + We also went down to “**Supported orientation**” and set “**orientation = all**”, but I seemed to get errors unless I chose “**orientation = portrait**”. The .spec file in my Ubuntu machine didn’t even include a version for “all”.
  + Change “**android.arch =** ” to be “**android.arch = arm64-v8a**” (this will go into our APK file name).
* **Run Buildozer:**
  + Run either **buildozer android debug** (or **buildozer android clean debug** if you’ve been doing some troubleshooting after the initial try).
    - The **clean** version will ensure that it won’t mess with previous efforts to install the APK package.
    - However, for a super clean install, I ended up running **rm -rf .buildozer** to delete a hidden file at one point. This forced me to go back to using **buildozer android debug** again as though it were the first time.
  + If it runs to completion without any errors, it’ll give you your APK file:
  + “**myapp-0.1-arm64-v8a-debug.apk**”

## Installing the APK File for Android:

* He started by saying that this entire process is easier if you have a dedicated or dual-boot Ubuntu machine (way ahead of you, man).
* To transfer the APK file to our mobile device, it would be useful to be able to connect the phone to the Ubuntu machine with a USB cord and transfer the file that way.
* However, he wanted to find a solution that would work for everyone, not just people with dedicated Ubuntu machines. So he’s using a file transfer website called “**Gofile**”.
* He uploaded the file here, and it gave back a ***download link*** which we can put into the browser of a mobile device.
  + I wonder if I could just do all this with the version I already saved to Dropbox…
* From here, he showed how to download the file on a phone. His browser was already navigated to the download link, so he hit “download” a few times to get the file.
* Once the APK file downloads, it’ll ask if you want to ***install the application***. He pressed **Install**, and then Android prompted with a security warning, asking if you trust the download source. He hit “**Install Anyway**”.
* He then showed the app in action on his phone, and everything seemed to work perfectly.

## Deploying to iOS:

**Note from Instructor:**

“Unfortunately, converting a kivy app to an iOS app requires you to have access to a Mac computer. The conversion cannot be done on a Windows or a Linux computer.

It's also currently not possible to do this with Python 3. You need to use Python 2.

I will replace these notes with a video once there's a stable method to convert kivy apps to iOS. Meanwhile, you can try the official instructions found here: <https://kivy.org/doc/stable/guide/packaging-ios.html>

or if you prefer video, you can watch this YouTube video from Erik Sandberg: <https://www.youtube.com/watch?v=UAi3PG-qN2k>”

# Section 29: Web Scraping with Python & Beautiful Soup:

## How Web Scraping Works:

* An example would be seen if you go into ***inspection mode*** for a website. In his example, he’s using a real example website called **example.com**. Going into inspection mode, we can see the HTML tags, the CSS, etc.
* The HTML elements are *key* for web scraping.
* Let’s say we want to we want to extract the text of the **<h1>** tag (in this case, “**<h1>Example Domain</h1>”**) out of all the *divisions*, or **<div>** tags.
* So what you do is, you tell Python to go to *all* the <h1> tags and extract the text of these tags.
* But first we have to *load* all of the HTML text to Python to read, and we do that with the **request** **library**. Using **request** we can give Python the URL, and Python will grab all of the HTML text for that URL.
* Once we have this text, we’ll use the **beautiful soup** library to extract all of the elements from the text.

## Link Update:

**IMPORTANT NOTE**

In the next video we will scrape a webpage which was previously stored at:

https://pythonhow.com/example.html.

**Please note that the webpage has now moved to  this link: https://pythonizing.github.io/data/example.html**

**So, please use the second link instead of the first one.**

## Web Scraping Example with Python:

* We’re starting with a very simple webpage describing three big cities: London, Paris, and Tokyo. Each city name functions as a **header** for its block, followed by a short descriptive **paragraph**.
* We’re going to extract the **city name** for each.
* He’s going to be using **Jupyter Notebook** for this one.
* So from a working directory we opened the **Windows Command Line** (or **PowerShell**) and entered **Jupyter Notebook**. When it loaded, we chose ***New*** and **Python3**.
* Now, the first thing we want to do is to load the desired source HTML code into Python. So we want to **import requests** (pip install it if you don’t already have it), and then we also want to **pip install bs4** to get Beautiful Soup 4 (the latest version at the time the video was created). We then **import** that to Python as well:

import requests

from bs4 import BeautifulSoup

* We then want to use **requests** to get and store our webpage in a variable **r**:

r=requests.get("https://pythonizing.github.io/data/example.html")

* If we run **type(r)** here, it returns that it’s a **“requests” datatype**, **requests.models.Response**.
* We want to grab the *content* of requests and store it in a variable **c**:

r=requests.get("https://pythonizing.github.io/data/example.html")

c=r.content **🡨 🡨 🡨**

* If we run **type(c)** here, it returns “**bytes**”.
* We can also **print(c)**. It doesn’t look very nice, but it’s a single line version of the HTML script, the source code. If we want to make this “beautiful” and extract the elements and text from it, we want to use Beautiful Soup. It will parse this source code and give us what we want.
* To do this, we create a storage variable **soup** and run **BeautifulSoup** on **(c)**. We may also want to pass a second argument to BeautifulSoup to *specify which* ***parser*** we want to use:

soup=BeautifulSoup(c,"html.parser") **🡨 🡨 🡨**

* This “**html.parser**” is the one we’ll almost always use.
* (In **Jupyter Notebook**): If we then run **print(soup.prettify())**, it will print out the *source code* as it appears in *inspection mode*. This is really just for demonstration though.
* Looking through the source code (either through *prettify* or *inspection mode*) we see that the cities are all tagged under the **<h2>** tag. Naturally we begin to want to ***iterate*** through the boxes of the website, or the *divisions* (<div> tags).
* We want to perform a *method* called **find\_all()** on **soup**:

all=soup.find\_all("div")

* Now, this would find ALL the “div” tags, but we only want to focus on the ones with **class=“cities”** in the source code. So to do this, we pass in a dictionary with a *key* of “class” and a value of “cities”. We also want to save this to a variable, **all**:

all=soup.find\_all("div", {"class":"cities"}) **🡨 🡨 🡨**

* Graphical user interface, text, application, email

  Description automatically generatedIn Jupyter Notebook if we run/print “**all**”, we’ll see that these divisions have been extracted from the source code:
* Each **<div>** is separated by a comma, so we have a ***list*** of three elements.
  + If we only wanted to extract the first element, we could’ve used **.find()** instead of **.find\_all()**, or:
  + We can use ***list indexing*** such as **all=soup.find\_all(“div”,{“class”:”cities”})[0]**, or just **all[0]**.
* Now we want to narrow it down to the **<h2>** tags. So, we can take our **all** object and apply **.find\_all()** again. However, this can only be pointed at specific elements of the list:
  + **all[0].find\_all(“h2”)** 🡪 gives “**[<h2>London</h2>]**”, a *list*.
  + **all[0].find\_all(“h2”)[0]** 🡪 gives “**<h2>London</h2>**”, with *tags*.
  + **all[0].find\_all(“h2”)[0].text** 🡪 gives “**London**”, just the text.
* So this extracts just the first city, London. But what about Paris and Tokyo? Or a longer list? We’re going to need to use a ***for loop***:

for item in all:

    print(item.find\_all("h2")[0].text)

* And this lists all three cities!
* We can also pass **p** instead (“**item.find\_all(“p”)[0].text**) and we’ll get the paragraphs instead.

# Section 30: App 7: Web Scraping – Scraping Properties for Sale from the Web:

## Demo of the Web Scraping App:

*Note: It appears that we’ll be using* ***Jupyter Notebook*** *for this section*.

* There’s an increase in demand for getting data from the web.
* For example, one might need house data from a **real estate website**, or business data from a site like **yellow pages**, or perhaps information from **Wikipedia**.
* However, websites like this don’t offer things like **.csv files**. What you want to do in cases like this is to **scrape data** from these websites.
* In **Python Web Scraping**, you get this data, and you store it in a **pandas dataframe**. From there, you can ***export the data as a* .csv**.
* We’ll be working with **Century21 real estate website data**.
* With Python, we’ll be performing a ***search query*** on a location.
* Python will search for data, get the data, and store it in a **dataframe**.
* Lastly, Python will export the data as a **.csv file**.

## Note: The New Website URL:

**Important note:**

Please note that the URL of the website we are scraping in the videos is outdated. Please use this new URL instead:

https://pythonizing.github.io/data/real-estate/rock-springs-wy/LCWYROCKSPRINGS/

## Loading the Webpage in Python:

*Note: Work for this app primarily done in* ***Jupyter Notebook****, but I’ve also made a version on VSCode for consistency in notes*.

* We start by *importing* **requests** and **BeautifulSoup**, then we load in our website (see note on previous page) and set its *content* to a variable **c**:

import requests

from bs4 import BeautifulSoup

r=requests.get("https://pythonizing.github.io/data/real-estate/rock-springs-wy/LCWYROCKSPRINGS/")

c=r.content

* We also printed out the content of **c** to make sure everything was working.
* We then set the variable **soup** and ran an **html.parser** on it, then printed **soup.prettify** to see it formatted like an HTML:

soup=BeautifulSoup(c,"html.parser")

print(soup.prettify())

* This resulted in:
* ![Graphical user interface, text, application, email

  Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SOWRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjAyOjEwIDE2OjA3OjQ4AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMyNAAAkpIAAgAAAAMyNAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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gKGHPofaiimOLs7nKeAPhn4/8ABnwtXw0/ifSbnUrWGO3s7saewjWMDB3pv+Y49CK5Tw3+zx4wt/hPrfgfXfFWm3lneLIbeezsGiaJ3kLsWyxyMnpRRTjpK5UH7zZ2Xir4HnxN4gt9RbUVhSHQ5tIMXl5yXKHf/wCOdPerfw6+DUvw0uLVdH1FY9Oa2WO8s/L+WWVVCiReeCcc0UVXM0TP3ndmx4Z+GVvpuvT+INVn/tbW5XYJczL/AKiM9EjHYV3K8AdqKKhiYUUUUhBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUoooph0G7hnGKN1FFDMlJi0UUUx3YuaN1FFFguwxmjbRRUmglH4UUVRndi8elHHpRRRYLsOPSjj0ooosF2JS4oooKTYUlFFSULto20UUAJRRRQAUfhRRQAu2jbRRQAlFFFAC7aNtFFACUfhRRTGLto20UUhBto20UUAJRRRQAUUUUAFFFFAC/hR+FFFTcYfhSUUUMQYpce1FFIA2mjaaKKoBKKKKkAooopgGRRxRRTjqRzMXFG2iimUG2jiiimJuwbqN1FFOxN2JS0UVJVxKXFFFBQbaNtFFABijFFFAg/Corr/UPxjiiin1Gjnm+uKfH83Q5+lFFIod83+R/wDXooooJP/Z)He searched the text for an address that pops up in the website to make sure everything came in correctly, then *deleted* the **prettify** since we were just using it to test.
* Next up, we want to *understand the structure* of the webpage. We’ll be using the ***inspect*** feature to do this.

## Extracting <div> Elements:

* Next we’re going to use **inspect** to learn the structure of the webpage.
* The logic of what we want to do is, we want to iterate over all of the boxes containing property information on the webpage.
* Hovering over and highlighting these boxes will also highlight their section of code in the **inspect** window and vice versa.
* We’re looking for elements containing **<div class=”propertyRow”** that represent the entire row/box. Inside here we can find data about the property, including the **price**.
* We want to scrape for **price**, **address**, **number of beds**, **number of baths**, and the **square footage** and **lot size** when included. Later we’re going to apply these to **pandas dataframes** to send them to a **.csv file**.
* Once we understand the structure of the website, we can begin extracting this data with **.find\_all**:

all=soup.find\_all("div",{"class":"propertyRow"})

* He then printed **all** in a Jupyter Notebook line, showing a “ResultSet” similar to a **list**. Printing **len(all)** gave a result of **10**, because we have 10 results per page on the webpage.
* Printing **all[0]** shows the HTML code for the *first element* (or first property on the page). We can run **.find\_all** on this just like we ran it on *soup*:

all[0].find\_all("h4",{"class":"propPrice"})

* This finds the **property price** (**propPrice**) for the *first element*. To find the prices for all, we would iterate through the list.
* Since each property only has *one price*, we can use the **.find** method instead of **.find\_all**. We can also use the **.text** method to pare it down to just the price:

all[0].find("h4",{"class":"propPrice"}).text

Graphical user interface, text, application, email

Description automatically generated

* This gives us some **\n** new-line markers as well though. Luckily, the object that we’re creating here is a **string**, which means we can apply *string methods* to remove the new-lines:

all[0].find("h4",{"class":"propPrice"}).text.replace("\n","").replace(" ","")

* This replaces both the **\n** instances and the whitespace with *empty strings*, giving us just the price on its own.
* Now that we have the bones of this process, we can write the code to *iterate through all property entries*.
* Before going further, we decided to organize our code. He taught us a trick to do this in Jupyter Notebook:
  + First, we want to be in **command mode**, so hit **esc** to get to that.
  + Next, we click on the *first cell*, then hit **Shift + J** repeatedly to select subsequent cells.
  + We want to merge all of these into a single cell; we do that with **Shift + M**.

## Scraping the Addresses of the Properties:

* He started the lecture off by printing **soup** again, which is our *source code*, and then printed **all**, which is the source code separated at our chosen divider. So far, we’ve only extracted the *property price* of the first division, the *first house entry* on the webpage. To get all of the boxes, we need to iterate:

for item in all:

    print(item.find("h4",{"class":"propPrice"}).text.replace("\n","").replace(" ",""))

* This prints out each price for a home on the first page of the webpage.
* Looking into the **address** data, we find that it’s divided into two parts: the main address and the city/state information. These are tagged with **<span class=”propAddressCollapse”**, and we can use **[0]** and **[1]** to get to each of them. We’ll also need to use some *string methods*.

Graphical user interface, text, application

Description automatically generated

for item in all:

    print(item.find("h4",{"class":"propPrice"}).text.replace("\n","").replace(" ",""))

    print(item.find\_all("span",{"class":"propAddressCollapse"})[0].text)

    print(item.find\_all("span",{"class":"propAddressCollapse"})[1].text)

    print(" ")

* ![Graphical user interface, text, application

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SH2RXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjAyOjEwIDE3OjMyOjI3AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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c0dtMf7Qh8uSJlZnRiB6N9/wDP+lbc/kQK+kTSTRTLqRUiRZJFUHa+M8YzwOatWVksVuYHnha5GSXiXbgEk9MnH50pSv0A0DIiMiM67m6Ank4ppuIVcoZUDAgEFhkE9PzqNQHCaJkLiRCo6kMMCgyxj/lovXHXvRYB9FABRQAUUAFFABVGmhl6ikIKKACigAooAKpf2VajUZb9Y9tzLGI2cen+NAFG70ETXAm89VG5S2YxnCgjr+P4Umn6ZZ2+LxLkSAM0gkyMAHOfp71d7o053y2sTzWkYZ7gXEaK8iyFtoJ9AM+npVWHQYHtwsV0roY2UHYCDk59entWTg2JSt0NWKzWNNrO0mANu/BC/Qdqzk8NweQEmkLsF2ZVdnyg5A4PTiri+Ukc/h+Np5JBcMvmElgFHIPr6kHBz7AUyHw+8FusEd6QixhF/djI5Jz19yMVp7TS1hDrfw7FbxsouJGYlyrEnjdjk889Kk/sicdL7n5DlogfusW9e5NL2nkBT/4ROB9omnMqgOCrICDuGO/4flWjZaRBZStIoQsygHCBRx04odS6sBeijESbQSRknmn1mAUUAFFABRQAVRpoZeopCCigAooAKKACigCteSQxrEJt/wA0gC7QTz71mjT9NtgNPmklYuu7nK8cD7ygAdAPemnZDvpYl2WW1IFeQpuWMdSCdnBz9O9EEmnaVIbaS72yRRb2MuFAUnqSAB1ouF9LE8et6bLOYUvIS4YpgMPvDGR+tTw31vcSBIZBJld4ZRlSPr0pCLFFABRQAUUAFFABRQAUUAFFABVGmhl6ikIKKACigAooAKCQBk9BQBWkv7eLBd8AgHIBPU4H5mqF3d6PO37+ZRIwKh8EEbfm4NUk3sUot7D7awspVR4J5iqlHUeYeNowOD7VLeaLZX07zTIxd4xGxDY+UHNIkF0WzUghX46AuSB06f8AfIq1a20dpbrBFnYucbjk9c0gJqKACigAooAKKACigAooAKKACqPemhl6ikIKKACigAooAKrT3aRhhtLEMFI+vJ/TmgDLjvbK5jkEltIkLLlsuOisBjg9Oc4qxb6fp8ycQMSpO4OTnnsef/1VWsTS7iaEVvFD/q0C59KlqTMKKACigAooAKKACigAooAKKACigAqj3poZeopCCigAooAKKAIZ7hYAC+cYJLdhgVlT6yI7kRvAilQm5mYcFiB/JqpK5SVy1bfZZXUraKrfMmdg4x1H0zWhgKOAB9KTExaKQgooAKKACigAooAKKACigAooAKKACqPemhl6ikIKKACigAooAqX14LWM5j3naWwTxx/+uqMWqSGLfPChJVThT3O7/wCJpouKui5c3MkW9IlUMImk3E9PTjv+YqimvM10bYwfMpjBbfx84z0x2rOUmmJRuWrbUmu02LGI5WDbcnIGDiqVz4jNperayW25jMItyvgdMk4x+laxjcViSfXJYVhP2VD5mwD96eC2cfw+gqpN4qaAq7WgaORwqAScjryePWrVO4E2oeI20+3klltRmNQzBHz16dhVSLxmsrov2Ijc7oD5n90Z9KapXW4ie08Sy3F0bQ2iearBS3m4XOT7eg//AFVvSGUMrIU2AEsCOT+NRKPKwHRSCWJJACAwBwafUAFFABRQAUUAFFABVHvTQz//2f/hMeRodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6eG1wPSJodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvIj48eG1wOkNyZWF0b3JUb29sPldpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQ8L3htcDpDcmVhdG9yVG9vbD48eG1wOkNyZWF0ZURhdGU+MjAyMy0wMi0xMFQxNzozMTo0ODwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgIC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I7ee28M211aQT/AHknvJbgD6eYxx07V0uv+H7PxNot5pWoxefZXcbQyx7ipZTwRkcj8K0c/MtK1IR514J+A3hD4fC4OkWE4aVdjNdXktydpxkDzGOB9KreH/2dPBPhvXE1ay06YXkcxni8y7ldY2Ix8qsxC/QV6bRQM4TxZ8EfCXjTxHZa7qdlcf2nZsjxzW15LBkqcjcEYBvxzWrB8O9Dhh1eEWeYdVIN2DIx80gADPPoBXTUUCPOPEXwD8JeKNRs77ULW8nntFEcQjv5oowozgFFcK3XuK7/AE6wh0uwhtLdBFBCoREXoqjoKsUUXGLSUUUhBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFMl/1cn+7T6ZL/q5P92mM51vvGihvvGitCgooooA6WiiisiAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoPQgelFVL7VbXSrcz3k6W0O4Lvc8ZJwP1wKBnHWejzaB4vuJri1fUIr6QlL7buMGTwnsBnGfaqemx/wDCWfEa5vCXex0ZfJi5yrSnDbh9BkV3eoataaZYy3lzMsFvEhd5HPCqOSayrjxNo2iWVreTzw2trfOFhdV4kY8j6kgU3Fs15pJXseRfE3UJNJ8dI/h2y8QReI5kSNp4bCSbT5EDkkOR8oPXmsnxD4qXwv8AF7zdT0HUtY1K502FETTbJrgQuV+YMyg7ATxzxgV9InDKDnKnBFZUfhuwh8QTauIcX0sSxvLk/Mq9BjpXRCryHRDEcu6Pn7xd4Z1nQ/BOi6ddLrqaZJJNLcjw2sgulZ3ZkXKchdrYP0ql4V8B6nB4c8O2cmk6lNbx63JKU1BWll8ry1wZC3XnPJ9K+oSo5GBQoC4wMVu8TJxtY1lipSjax5jodldaR4z8ZzPpkr2s8duYdkZ2SEB9wHHPbP1rpfA+h32itdPdS7YrlvNjtVHyQj2Pv6V1NPCkAVwy96V2edK8pXY4L8y9gKc1NXgUtJiYUUUUhBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFMl/1cn+7T6ZL/q5P92mM51vvGihvvGitCgooooA6WiiisiAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACkYkKxAyR2paAw3Yzz1oA43Q/EV34n1yVN62FvZy4+ztxLIemf938O/WsvxUw8V+OtM0IJ/oliv2u8XPDA52A/RgDXaXmg2d1qEF75ey8jbIlTgnjo3qKzPDfhZdH1DVL6aYXV1fz+bvIwUUgYT6Ag/nVDPDvit/aXjbSfGd2fFGoaFY6VHJHFp9lKiJcEBgRKGB3K2O2D1rZ8aRanaeFPBWsWOv6hp3kCBZLKBlWG4zGeXBXJP0xXZeLPgj4X8U6pPqWoC9R7iPy5be3uCkMnH3ig4J5PPvVbxt8B9B+IFtp8F7qGu2NvZxrHFFpupSW64AABIXqcV1Jxtqd8a1NxUWXvGWuX3hvxFoOoG6kXSrhWS4h/hUqpYMe/JwKbod5rGoeGLvWRqRheS6klt1nHyeSCdgPtjH5VpD4Z6ZL4Tg8O3E2pXlnDjbPdXLSTHBzy55NbUng7T7qxtrSRZvs9uqosYchWA7H1rB2sc0pQ5dNxPCevN4j0hLp4WgkDbHU9CQcZHtWxtNLb2sNjAkUKBEQYAA7UtQY3FVRwadRRQMUCkp1NqSQooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigApkv8Aq5P92n0yX/Vyf7tMZzrfeNFDfeNFaFBRRRQB0tFFFZEBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUNllIHBxwaAKc+rWttdR28sypNJ9xO5/zisPxN4uOi6lpVhawLcXd9MAFPaMEb2/DIrP06zk0XxTM+o25ma4J8q+5YKvXaR2+tZ3hlX8VfEDVtZYB7OxzaWpyDhwSJMex4rWMU9zSNuofFD44eHvhnZyre6lax6sV3QWcrNmQ5AAyAcde9J4o+LVnoFxoFm19ptrqOpspFrfu6FlPPybVPP1xXk3j7WTpa+NNBm0W81HXb51eArCzLJHhfmD4wMdMZzxWv8afHeheG9B8PWGoRXTXsbwzbLfT5ZioDAk5RTjoa35F0OlQi7Hux1qw/tIac1xGL3Z5nkE8lfUVHD4k0uaMPFdxMok8oEH+PB4yfoa888X65HLY6P4z0a2mvGVWjRTC6yOr45KkAjGO9bOl6ZHoPw9itLqzk1Ca8LSGEDku53DntjNYyujKcIxXMegrll6/Q9qfg1g+CNJv9G0VINQuGuJidwzzsB6L+FdBWVzm06DGBptSN0qOmMfRRRSYx1Npw6U2kIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKZL/q5P92n0yX/AFcn+7TGc633jRQ33jRWhQUUUUAdLRRRWRAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFITigBWUMvIyPeqtnptnpsbJbQR26FjIRGoGWJyT9TWA3jH+0NYksrCD7TaQAtc3fREx/Dn+9/jXjHj/x14w1ybTpbC1sLXwomrw27XD3DrduwfBwoBXafr+FaRjc3p0nU2Z9GtGrdsHNMaGPbyMD6fpXkniLUtZtvid4ZS6sbKXSJsJDdJeTLcK5GeYwAhHB5NdPeeOpbDxBq+nTxRJFaWX2yKTd/rOoA+uRT5WupTpyTtF3OxMQ8sKBgfSpo1+TBHQ5FYfhHWrrXvDdlqN3DHBJcRrKEBPCkAj8eazviD40u/CsNjbaZZpe6vqEwgtoZWIj3YJyxHOOOwrOcuVXZm7vQ67zApwSM/Wnbhx0yelcFfaXq3ifwBf2vjG2s7e6dGcppNzKF4GRhztbP0rE+GOr3Ol/CN7qKZHltBN5TahI2wBeis3Jxjv1rlnW5HrsTGHMtD1fzFZQQQRUe49Tz9K8Q+Hfx+ufFGpalplz/AGNe3ttbPcp/YssskfykDa5kUEHkdK6L4aePPEHjeGbULyPRI9L2sYhYzyNOCOzqwAH4GlHERmk4mrpOOkj1JTS4715P4M+IHibxV4ouIPI0WDSbeaSKRTcSi7G04ztK7f1rsm+JXhpbs2v9rwC4VihjOchvTp/WuiLcjKUeV2OkEq5xuX86XtmuC8UeD9S8Qapc3Frd+RBJHEqfvWH3X3E8eorl/iR8VvEfhfxRp3hrQbLR5LieIMLjXLiWKN8YyFZAeeR1x1raFNzdkHKeyBgc4oLBQCeleG/Gb9ob/hU1vo9k82i2+u38Xmn+0ppVtOOCFdFLZz04q1pXx8uPEnw907VdHsLfU9b1Cb7LbW8RcW8kgALMCQG2AHPStPYTtdCse1UV5ZqHj7xh4R8HxXPiPTNIPiC4uRa2trpU8ssDM5wmSyhgM4zxXL6n8cvFPgvR9ZXxPoVkutWtv9sgh02Z5IZY9wXG5gDnLDpThQnPYVj3qkZgvU1494e+MXiG21G9g8WaNa2CizF9aizkZ2dDkBW3dGyvb1rkbHxh438QfFzwleazp+n6Xol3bXEtiltdSmZlwhBlQjb0PbPeqjhqjdmOx9IUV85237SuoWPxSt/DGoXHhm6gurr7LFFplzO92hwSC6sgTtg4NazfGbx9q+raqNA8LWF3pWl3/wBkuJJ5pFldfl+ZABgn5u/pSeHmlcVj3bPrSE4OO/8AnmvM/wDhadzFL4gtruySG9063WeKIsf3hcMUX68dq5a//aG0jwN4lu7Pxp4gtNDaW1W4trd1Zhyq9CFJ6npTWGmwPdqCQFyTx618wTftXRaD8OdC1KTVtKm1LVizW9zqzSRW7IASCSikjODjitVf2lNQ1X4Q/wDCV6dL4btbqO4NvNJqlxPHZMVOCUYIXOe2VHWqeEqJ2A+iVYMMg5FL3rwfwn+0nJ4u8Drf6da2N/rMl0tjCto7/ZZZipYbWYBtuFPJFY3hv4leI/CfiDxlq/jqOwsZrS0jKQ6fPJLAAZMA/MBg880LCVAPpLFJ3x3r50+F/wC1QPHV9qdpK+j3k0NtLdQf2PLK6hFBIEpkVcE8dM11ngX4meO/FF9YXlz4XsoPDt27RiaGZzcx4YjcynC7eD3zyKylQnFXYHr/AHNIzBQSSAPehMnORivP73wJq13rVxc/bytrJcxSiPzW4QElhj6VgB6Bkcc0tc9qviT/AIRu4iW7timm42/aQc7D2z7da6CNlkRXU5VhkYoAWiiikIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACmS/6uT/dp9Ml/wBXJ/u0xnOt940UN940VoUFFFFAHS0UUVkQFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABTZPuN/umiimgPMfAP/AB5+LP8Aro//AKAK89uf+Sa6R/2H4/8A0YKKK0j1Ouj8LO4+IH/I3+A/+vlP/QWrK+K//I1Sf9eY/wDQmooquhvQ+Nnqvg//AJFXTP8Ar1j/APQRXI/ET/kfvBP/AF/D/wBBaiiuSt8JyP42djrX/Iv3/wD1wf8A9BryWx/5N31H/cn/AK0UVyYj4fkVS3XqUvBP/JUNH/7F/wDrFSeAv+SzXn/Xu38moorhwvwo7sR8ZW8T/wDJdPC/++P6V7Mf+Pz8aKK9yn8Jw1viOib734/0rxH9qX/kRX/3m/lRRXZh/wCIjFHF2/8AyNngb/sX/wD2da7XxZ/rvAP/AF/v/wCihRRXov8AUZsfG7/WeEP+wxbf+jBXnP7RX/Iau/8AsDv/AOjY6KKnC9PRi6Gj8RP+Rvi/7AsP/ob1a1j/AJGT4ef9gm4/9Ajoorp6QA878Lf8gLwt/wBjHN/OavZvgj/rvGn/AGF5P/QFoormrfwwOZ8d/wDJT4/920/kav6p/wAj/rf/AF5r/wCgLRRThshM8r+Hn/Muf9c2/wDQpK7v4p/8h/wb/wBdW/mlFFdMtxI5Lwr/AMjEn/YyRf8AouWtb4qf8hrxv/1wsf8A0ctFFOPxobPT7H/kTNa/7Bj/APoFb/we/wCSf2n/AG0/9DaiivLrfBL1JO2X77/UU6iivPGcF8aP+RLuvqv867DSP+Qbaf8AXNf5UUU+g+hcoooqSQooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKZL/q5P8AdoopjOdb7xooorQoKKKKAP/Z)Now we need to extract the **number of beds** and **number of baths**. These also have “**span**” tags: **<span class=“infoBed”** and **<span class=“infoValueFullBath”**. However, we have to be careful here because the actual number of beds and baths in each is held within **<b>** tags:
* Running a **.find\_all** directly could cause some problems because we have multiple **<b>** tags. The same applies to the **area** of the house.
* There are two potential solutions here:
  + You can assume that **beds** is always the first one and pass an index of **[0]** to the ResultSet list (then **[1]** for baths and so on).
  + But we’re going to do it in a more constructive way. We’re going to extract the **<span>** tags first, and then go inside those and extract the info in the **<b>** tags:

for item in all:

    print(item.find("h4",{"class":"propPrice"}).text.replace("\n","").replace(" ",""))

    print(item.find\_all("span",{"class":"propAddressCollapse"})[0].text)

    print(item.find\_all("span",{"class":"propAddressCollapse"})[1].text)

    print(item.find("span",{"class":"infoBed"})) **🡨 🡨 🡨**

    print(" ")

* Note that some of the results will be **None** (such as a property with no house on it yet, and therefore no beds). We can’t run a **.text** method on this or we’ll get an error. We can account for this situation using a **try/except** statement:

for item in all:

    print(item.find("h4",{"class":"propPrice"}).text.replace("\n","").replace(" ",""))

    print(item.find\_all("span",{"class":"propAddressCollapse"})[0].text)

    print(item.find\_all("span",{"class":"propAddressCollapse"})[1].text)

    try: **🡨 🡨 🡨**

        print(item.find("span",{"class":"infoBed"}).text)

    except: **🡨 🡨 🡨**

        pass

    print(" ")

* Now we get the text for the **<b>** tag as well as the text for the **<span>** tag underneath that (i.e. “4 Beds”). We could just leave it like that, but he said he’d like to have the plain number only. To do that, we can apply the **.find** method again:

    try:

        print(item.find("span",{"class":"infoBed"}).find("b").text) **🡨 🡨 🡨**

    except:

        pass

* Now that that’s working, we can do the same for **number of baths**, **area**, and **half-baths**.
* Full iteration code so far on next page:

for item in all:

    print(item.find("h4",{"class":"propPrice"}).text.replace("\n","").replace(" ",""))

    print(item.find\_all("span",{"class":"propAddressCollapse"})[0].text)

    print(item.find\_all("span",{"class":"propAddressCollapse"})[1].text)

    try:

        print(item.find("span",{"class":"infoBed"}).find("b").text)

    except:

        print(None)

    try:

        print(item.find("span",{"class":"infoSqFt"}).find("b").text)

    except:

        print(None)

    try:

        print(item.find("span",{"class":"infoValueFullBath"}).find("b").text)

    except:

        print(None)

    try:

        print(item.find("span",{"class":"infoValueHalfBath"}).find("b").text)

    except:

        print(None)

    print(" ")

## Scraping Special Elements:

* So far we’ve scraped **price**, **address**, **beds**, **full-baths**, **half-baths**, and **square footage**.
* We still need to get the **Lot Size** for each entry. However, this one will be a little trickier to get. The reason for this is, if you look at the *source code*, you see that the entry “**Lot Size**” (<span class=”**featureGroup**”>) and the entry for its size “**x.xx Acres**” (<span class=”**featureName**”>) are both under a **<div class=“columnGroup”>**.
* When you look at another property with more attributes, you’ll see that **<div class=“columnGroup”>** is repeated multiple times for all of the different attributes that property might have (such as “**Age**”, “**Amenities**”, “**Appliances**”, “**Architectural** **Style**”). Iterating through properties to extract just the **Lot Size** might lead you to accidentally extracting one of these other attributes.
  + In one example the instructor showed, you may be expecting to extract the **Lot Size**, but instead you’ll extract the house’s ***Age*** because that’s the first attribute listed in that column.
* Instead, let’s try ***looping*** through all of the **columnGroup** entries and checking if the **featureGroup** is named **Lot Size**. If it contains “Lot Size”, we’ll have it give us the **.text** value inside of **featureName** (such as **0.34 Acres**).
* We’re going to place *another loop* inside of our *big loop*. We’re also going to **print(column\_group)** to test that we’re getting the data we want:

    for column\_group in item.find\_all("div", {"class":"columnGroup"}):

        print(column\_group)

* This will search through all instances of “**columnGroup**”:

Graphical user interface, text, application, email

Description automatically generated

* Next we’ll want to narrow it down and only search for ones where the **featureGroup** is named **Lot Size** if a given house has that attribute. We’ll do this by iterating through all featureGroup instances. We’ll also print “feature\_group.text” and “feature\_name.text” to test:

    for column\_group in item.find\_all("div", {"class":"columnGroup"}):

        # print(column\_group)

        for feature\_group, feature\_name in zip(column\_group.find\_all("span", {"class":"featureGroup"}), column\_group.find\_all("span", {"class":"featureName"})): **🡨 🡨 🡨**

            print(feature\_group.text, feature\_name.text) **🡨 🡨 🡨**

* This prints out all attributes of a given property. One property in particular has a lot of them:

Graphical user interface, text, application, email

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* He pointed out that in the second property, a lot of attributes show up that are ***hidden*** *in the source code* on the webpage. You normally wouldn’t be able to see them from the page where all the properties are listed together; you see them once you click on that property and go to its specific listing.
* Now we can check each **featureGroup** to see if it’s named **Lot Size**:

    for column\_group in item.find\_all("div", {"class":"columnGroup"}):

        # print(column\_group)

        for feature\_group, feature\_name in zip(column\_group.find\_all("span", {"class":"featureGroup"}), column\_group.find\_all("span", {"class":"featureName"})):

            # print(feature\_group.text, feature\_name.text)

            if "Lot Size" in feature\_group.text: **🡨 🡨 🡨**

                print(feature\_name.text) **🡨 🡨 🡨**

* In the next lecture, we’ll get rid of our various print statements and actually store all of our data in a **Pandas Dataframe**.

## Saving the Extracted Data in CSV Files:

* We’ll need an 8-column Pandas dataframe to contain all of our desired attributes.
* One solution is to *iterate through the dataframe*, but that’s a costly way to do it in terms of time efficiency; dataframes weren’t built to handle iteration efficiently.
* It’s better to *create a dataframe from a Python dictionary or list of dictionaries*. This is how we’ll do it.
* For each iteration, we’ll add our values to a *dictionary*. Our first one will be the **Price**, with “Price” as the key and the price as the value (such as **{“Price”: “$750,000”}**), then **Address** (so now we have **{“Price”: “$750,000”, “Address”: “0 Gateway”}**) and so on. At the end we’ll have **{“Price”: “$750,000”, “Address”: “0 Gateway”, “Locality”: “Rock Springs WY 82901”, “Beds”: None, “Area”: 3706”, “Full Baths”: None, “Half Baths”: None, “Lot Size”: 0.27}** for one house. For the next iteration, we’ll have the same keys again for another property’s attributes. By the end, we’ll end up with 10 dictionaries (10 properties per page on the website).
* We’ll need somewhere to *store these dictionaries*. We’ll store these dictionaries in a ***list***.
* We also want to start each iteration with an empty dictionary, **d={}**.
* We replace **print** statements with, for example, **d[“Price”]=** in order to set our keys and values on the fly:

for item in all:

**d={}** **🡨 🡨 🡨**

    d["Address"]=item.find\_all("span",{"class":"propAddressCollapse"})[0].text

    d["Locality"]=item.find\_all("span",{"class":"propAddressCollapse"})[1].text

**d["Price"]=**item.find("h4",{"class":"propPrice"}).text.replace("\n","").replace(" ","") **🡨 🡨 🡨**

    try:

        d["Beds"]=item.find("span",{"class":"infoBed"}).find("b").text

    except:

        d["Beds"]=None

* By the end of the ***first iteration*** of our *big for-loop*, we’ll have our ***first dictionary***. We want to store that dictionary somewhere, so we’ll create a list. We want to create this list *outside of the loop*:

l=[] **🡨 🡨 🡨**

for item in all:

    d={}

* We then want to append our dictionary to this list: **l.append(d)** at the ***end*** *of the for-loop*:

            if "Lot Size" in feature\_group.text:

                d["Lot Size"]=feature\_name.text

    l.append(d) **🡨 🡨 🡨**

* This will store a dictionary for each property in our main **list**.
* Printing **len(l)** gives us **10**, the number of properties on the page.
* Now we want to throw this list **l** to a **dataframe**. To do that, we need to **import pandas** and pass the list **l** into a dataframe:

import pandas **🡨 🡨 🡨 (actually up top, but he wrote it down below in Jupyter)**

df=pandas.DataFrame(l) **🡨 🡨 🡨**

* Now when we print **df**:

![Table

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SiyRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjAyOjExIDE3OjM2OjExAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM3MgAAkpIAAgAAAAM3MgAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* Pandas even assigned **NaN** values for cases where there was no **Lot Size** in the dictionary.
* Now we just need to save the data to a .csv file with: **df.to\_csv(“Output.csv”)**:

df=pandas.DataFrame(l)

#print(df)

df.to\_csv("Output.csv")

* And now we have our data saved.
* In the next lecture, we’ll work on ***iterating through multiple pages***. The Century21 webpage has 3 pages worth of properties for Rock Springs, WY.

## Crawling Through Multiple Web Pages:

* Rock Springs, WY has a total of **28** listings (actually **37 listings**, see note later in this lecture) spread out through 3 pages. We’ve only extracted **10** of the properties, those on the first page. This is a small town so we only have 28 listings, but *a large city will have many more*.
* What we need to do is load the *other pages* in Python as well. We’ll do this using **requests** again, just as we did in the beginning of the program so far.
* We can either go manually through all of the pages (3 pages, or *300 pages* for a larger city) and copy the URL, or we can try to figure out if there is a ***rule*** that changes the URL when we switch through the pages. Clicking on Page 2 gives us the URL for this page.
  + **Note**: the cached version of the URL for page 2 is:
  + [**https://pythonizing.github.io/data/real-estate/rock-springs-wy/LCWYROCKSPRINGS/t=0&s=10.html**](https://pythonizing.github.io/data/real-estate/rock-springs-wy/LCWYROCKSPRINGS/t=0&s=10.html)
  + And the URL for page 3 is:
  + [**https://pythonizing.github.io/data/real-estate/rock-springs-wy/LCWYROCKSPRINGS/t=0&s=20.html**](https://pythonizing.github.io/data/real-estate/rock-springs-wy/LCWYROCKSPRINGS/t=0&s=20.html)
  + The added portions, “**t=0&s=10.html**” and “**t=0&s=20.html**”, give us an idea of how the website is constructed. Going back to the first page again shows us:
  + [**https://pythonizing.github.io/data/real-estate/rock-springs-wy/LCWYROCKSPRINGS/t=0&s=0.html**](https://pythonizing.github.io/data/real-estate/rock-springs-wy/LCWYROCKSPRINGS/t=0&s=0.html)
  + The added portion here for the first page is “**t=0&s=0.html**”.
  + So it goes “**t=0&s=0.html**”, “**t=0&s=10.html**”, “**t=0&s=20.html**”.
* So let’s go into Jupyter and store a **base\_url:**

base\_url="https://pythonizing.github.io/data/real-estate/rock-springs-wy/LCWYROCKSPRINGS/t=0&s="

* This is the portion of the URL that’s shared by all the pages (the number at the end, **0**/**10**/**20**, has been removed).
* To test that iterating through these is going to work, let’s use print statements within a for-loop. We’ll be using **range(0, 30, 10)** here, starting at the beginning (**0**), stepping up by **10**, and then **30** is an arbitrary number we’ve chosen because it’s high enough to include all **3** pages for now. Later we’ll want to change this to a variable that can adapt to a city with many more pages:

for page in range(0,30,10):

    print(base\_url + str(page) + ".html")

* Running this gives us:

Graphical user interface, text, application, email

Description automatically generated

* The URLs are now stepping up from **0** to **10** to **20** at the end, and they can be opened by clicking.
* Now we want to (again) set up our **requests** (**r**), **content** (**c**), and **soup**:

for page in range(0,30,10):

    print(base\_url+str(page)+".html")

    r=requests.get(base\_url+str(page)+".html") **🡨 🡨 🡨**

    c=r.content **🡨 🡨 🡨**

    soup=BeautifulSoup(c, "html.parser") **🡨 🡨 🡨**

    print(soup.prettify()) **🡨 🡨 🡨**

* We ran **print(soup.prettify())** just to make sure we were getting all the source code, but now we want to replace that with **all=soup.find\_all(“div”,{“class”: “propertyRow”})**:

for page in range(0,30,10):

    print(base\_url+str(page)+".html")

    r=requests.get(base\_url+str(page)+".html")

    c=r.content

    soup=BeautifulSoup(c, "html.parser")

    # print(soup.prettify())

    all=soup.find\_all("div",{"class":"propertyRow"}) **🡨 🡨 🡨**

* He ran **print(all)** to show that it worked, but it was still a lot of data.
* Since he wrote this section of code at the bottom of the Jupyter Notebook session, we want to copy all of that code and paste it up above our **big for-loop**. We also want to indent everything in our **big for-loop** to the right so that it becomes part of the code we just wrote:

l=[]

base\_url=https://pythonizing.github.io/data/real-estate/rock-springs-wy/LCWYROCKSPRINGS/t=0&s= **🡨 🡨 🡨 place all the code we just wrote up here**

for page in range(0,30,10):

    print(base\_url+str(page)+".html")

    r=requests.get(base\_url+str(page)+".html")

    c=r.content

    soup=BeautifulSoup(c, "html.parser")

    # print(soup.prettify())

    all=soup.find\_all("div",{"class":"propertyRow"})

    for item in all: **🡨 🡨 🡨 indent so it runs for each page**

        d={}

        d["Address"]=item.find\_all("span",{"class":"propAddressCollapse"})[0].text

        d["Locality"]=item.find\_all("span",{"class":"propAddressCollapse"})[1].text

        d["Price"]=item.find("h4",{"class":"propPrice"}).text.replace("\n","").replace(" ","")

        try:

            d["Beds"]=item.find("span",{"class":"infoBed"}).find("b").text

        except:

            d["Beds"]=None

        try:

            d["Area"]=item.find("span",{"class":"infoSqFt"}).find("b").text

        except:

            d["Area"]=None

        try:

            d["Full Baths"]=item.find("span",{"class":"infoValueFullBath"}).find("b").text

        except:

            d["Full Baths"]=None

        try:

            d["Half Baths"]=item.find("span",{"class":"infoValueHalfBath"}).find("b").text

        except:

            d["Half Baths"]=None

        for column\_group in item.find\_all("div", {"class":"columnGroup"}):

            # print(column\_group)

            for feature\_group, feature\_name in zip(column\_group.find\_all("span",{"class":"featureGroup"}),column\_group.find\_all("span",{"class":"featureName"})):

                # print(feature\_group.text, feature\_name.text)

                if "Lot Size" in feature\_group.text:

                    d["Lot Size"]=feature\_name.text

        l.append(d)

* ***Note:*** *This may be due to changes in the cached website (they’ve apparently gone through at least two iterations of this), but after making the changes to crawl through multiple pages, I get a DataFrame that includes entries from* ***Rocksprings, TX*** *and* ***Black Canyon City, AZ****. Not sure why this is happening, but apparently one other student had the same issue and it never got resolved.* 
  + ***Update:*** *This does appear to be due to the way the cached website is set up. For some reason, properties from those other cities are mixed into the 3 pages that are supposed to be for* ***Rock Springs, WY****. Not really a good way to fix it, but at least it’s not because there’s anything wrong with my code.*
* **Note:** There are actually **37 listings** from the cached website due to the above weirdness.
* In the instructor’s case, he was missing a few listings towards the end. Looking into the cause, it turns out that the property it failed on had a **Locality** listed, but no Address. So we’ll add an exception to handle this case.
* I went ahead and just added **try/except** statements to ***all*** of my keys. The only ones that were missing it were **Address**, **Locality**, and **Price**. Covered all my bases that way.
* The last thing we want to do is to replace our **range** value of **30** with a variable.
* We find out what’s controlling the page by running ***inspect*** on, say “**3**” in the page links (we want to do this while we’re ***not*** on Page 3, so it’ll be a link). This leads us to:
  + **<a class=“Page”**
  + In this case, Page 3 is the ***last page***, so we want to keep that in mind when calculating our variable (we’ll use [-1] here):

page\_nmbr=soup.find\_all("a",{"class":"Page"})[-1].text **🡨 🡨 🡨**

print(page\_nmbr)

* Now we can plug this into our **range** function directly and multiply it by 10 to get **30** (note: remember that **page\_nmbr** is currently a **string**, so convert it to **int**):

for page in range(0, **int(page\_nmbr)\*10** ,10): **🡨 🡨 🡨**

    print(base\_url+str(page)+".html")

    r=requests.get(base\_url+str(page)+".html")

    c=r.content

    soup=BeautifulSoup(c, "html.parser")

    # print(soup.prettify())

    all=soup.find\_all("div",{"class":"propertyRow"})

* And we’re pretty much done.
* Some things we can modify or add are:
  + We can try this with **other localities** besides Rock Springs, WY.
  + We could also add some sort of **user input** to search for a different locality.

# Section 31: App 8: Flask and PostGreSQL – Build a Data Collector Web App:

## Demo of the Data Collector Web App:

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