```
# variables are just nicknames, they are plain lower case
words
name = "Naveen Qureshi"
# + plus, minus -, * multiple, / divide, **exponent, >, <
and more!
# =! Means is not equal to
# float(42) will give u 42.0 if you do int(42.0) you get
# this is not the same as rounding, it just cuts off past
that dec pt
# You can use input function to assign an input to a
variable and store it
# print(f"{name} you are {age_in_dog_years} years old
in dog years. Woof!")
# this is called the f string where you can bring variables
into your string - very useful!!
# the count = [1, 2, 3, 4, 5]
# a list always have sq brackets. commas in between
elements
# people = []
# people.append("Mattan")
```

Functions

people.append("Sarah")

- .append allows you to add things to lists
- .remove to remove things from lists
- .upper allows you to uppercase
- .lower allows you to use lower case
- .split allows you to split things in a list
- Import random and then use random.choice(list name) to get random items from a list (used this to determine who should go to Amazon visit! (3) and random.shuffle shuffles items within a list randomly
- number % number == 0 will give you a true or false response and can be used in cases like FizzBuzz

```
If/Else/Elif can be used in the following way:
answer = input("Do you want to hear a joke? ")
if answer == "Yes":
  print("I'm against picketing, but I don't know how to
show it.")
  # - Mitch Hedberg
elif answer == "No":
  print("Fine.")
  print("I don't understand.")
```

```
You can define things in Python - this is VERY
POWERFUL
def IntorFloat(string_input):
  try:
    float input = float(string input)
  except ValueError:
    print("Please input a number, this is not a valid
input")
def reverse(text):
  return text[::-1]
print(reverse("Naveen"))
def is palindrome(text):
  return text.lower() == reverse(text).lower()
print(is palindrome("Naveen"))
Always note down what use cases/test cases you used
to test your code.
##Test cases:
# #1. 2
##2. jkfnkasd
# #3. 1000000000000
Dictionaries
# # You can use dictionaries to store sets of key/value
# states = {'NY': 'New York', 'PA': 'Pennsylvania', 'CA':
'California'}
# You can import from another file with import
import class3 functions
# You can import a specific function or functions from
another file
from class3 functions import intro, divisible by
```

Weather API! import forecastio from geopy.geocoders import Nominatim

def get current weather(address): api_key = "173ef6c563749fb8f469085d79ad03e1"

Using APIs to send texts

https://twilio.com/user/account - can find SID and Auth

from twilio.rest import Client

account sid = "" auth_token = ""

create a variable that sends both account sid and token and define what text you want to send!