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7100

Final Project Checklist

**a) Needed Environment**
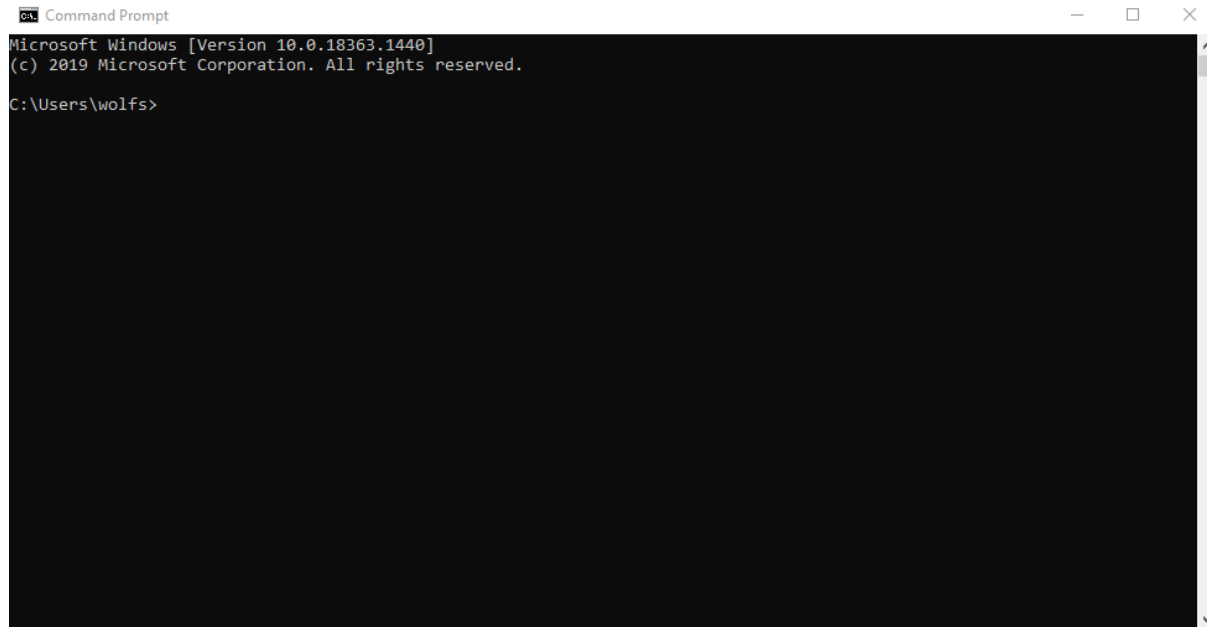
Step 1: Download Python 3.9 at https://www.python.org/downloads/
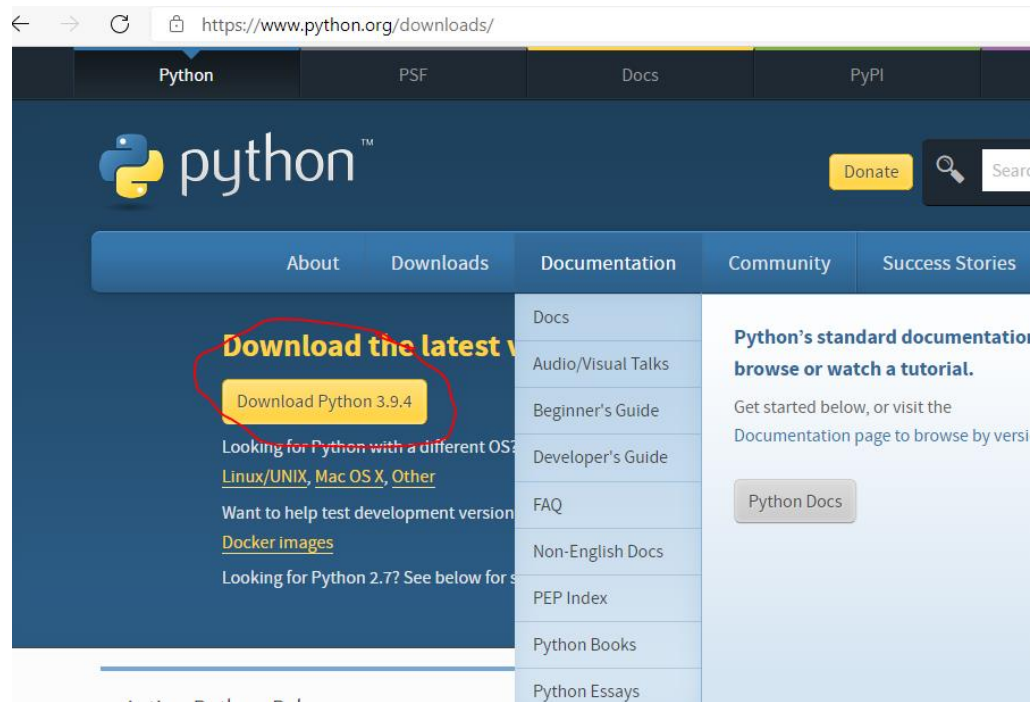


Step 2: Once Python is fully downloaded. Go to your Windows start menu and search Cmd
Step 3:Click Command prompt and this should open up a command screen
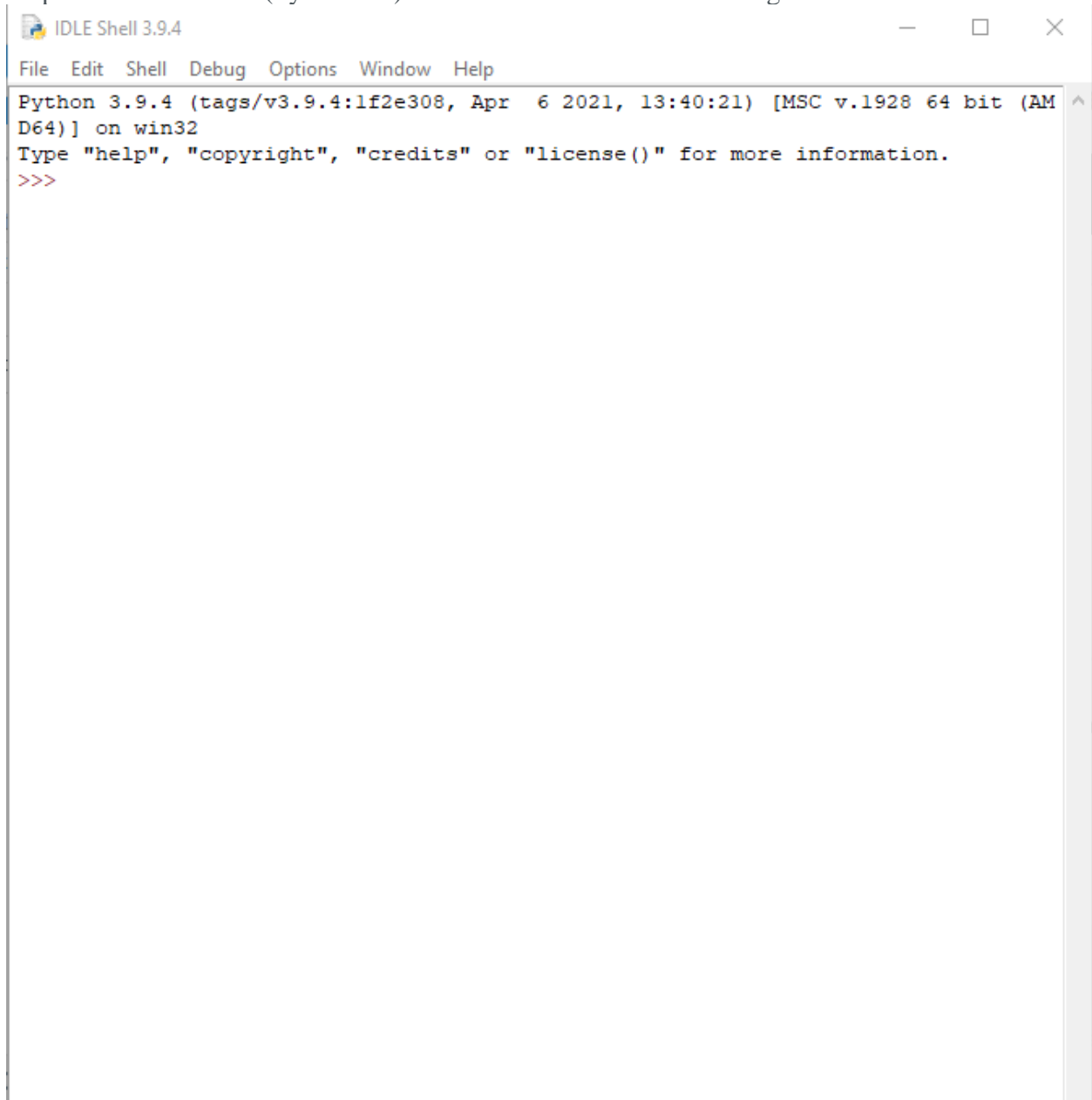Step 4: It should look like the image below

```
Command Prompt                                                    —  □  ×
Microsoft Windows [Version 10.0.18363.1440]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\wolfs>
```

This is the environment of where the code will be ran.
The GUI is Tkinter. The API used to make the application is
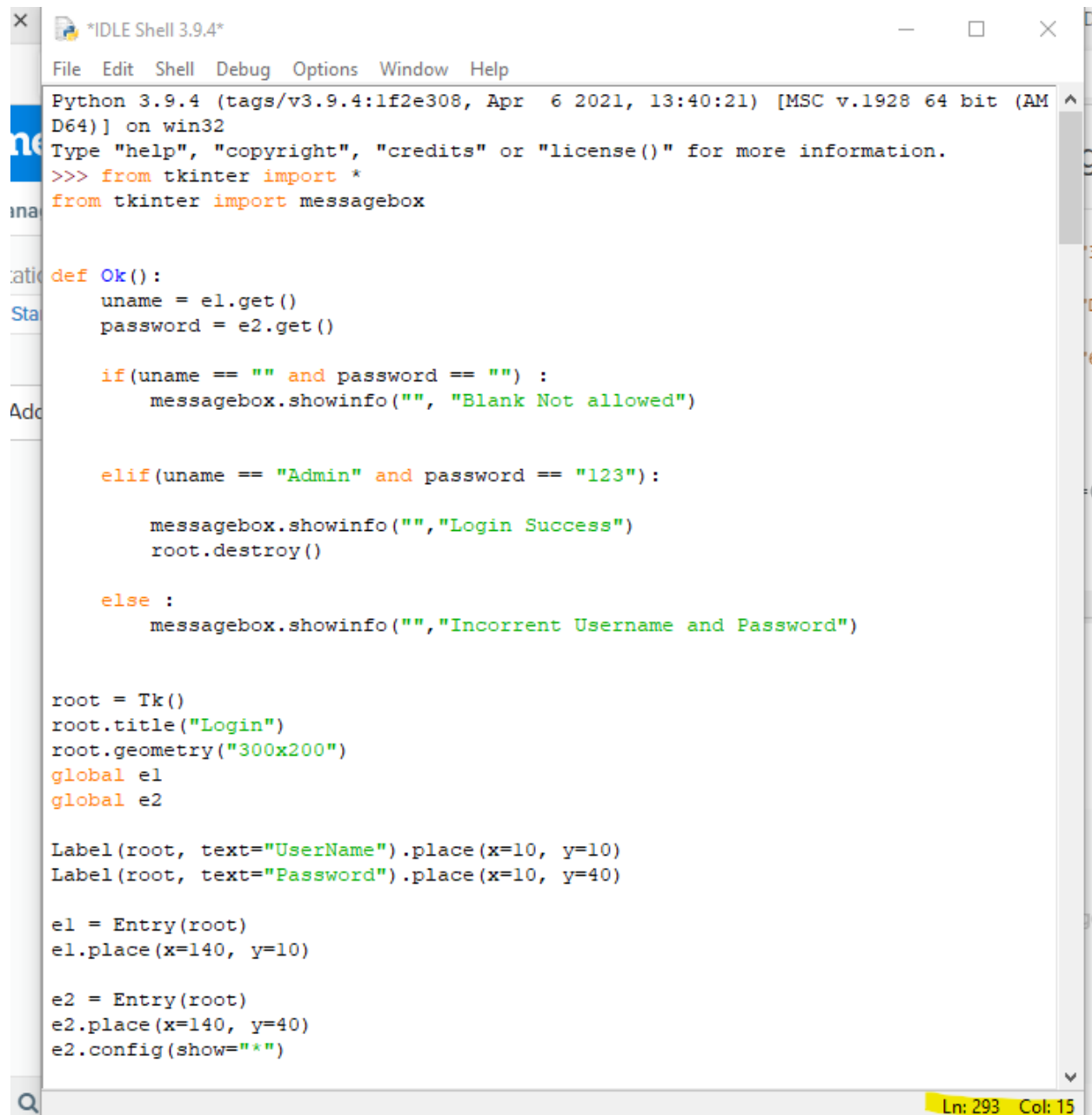
**b)Resources needed**

Step 6: Got to windows start menu and search Python IDLE (Python 3.9 comes with this text editor)

Step 7: Click on IDLE (Python 3.9) it should look similar to the image be



```
IDLE Shell 3.9.4                                                    —   □   ×

File  Edit  Shell  Debug  Options  Window  Help

Python 3.9.4 (tags/v3.9.4:1f2e308, Apr  6 2021, 13:40:21) [MSC v.1928 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
```

Step 8: Copy the below COPY and PASTE the below code in to your IDLE text editor

Step 9: The IDLE document should like the below image

```
*IDLE Shell 3.9.4*                                          —    □    ×

File  Edit  Shell  Debug  Options  Window  Help

Python 3.9.4 (tags/v3.9.4:1f2e308, Apr  6 2021, 13:40:21) [MSC v.1928 64 bit (AM ^
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> from tkinter import *
from tkinter import messagebox


def Ok():
    uname = e1.get()
    password = e2.get()

    if(uname == "" and password == "") :
        messagebox.showinfo("", "Blank Not allowed")


    elif(uname == "Admin" and password == "123"):

        messagebox.showinfo("","Login Success")
        root.destroy()

    else :
        messagebox.showinfo("","Incorrent Username and Password")


root = Tk()
root.title("Login")
root.geometry("300x200")
global e1
global e2

Label(root, text="UserName").place(x=10, y=10)
Label(root, text="Password").place(x=10, y=40)

e1 = Entry(root)
e1.place(x=140, y=10)

e2 = Entry(root)
e2.place(x=140, y=40)
e2.config(show="*")
                                                    Ln: 293   Col: 15
```
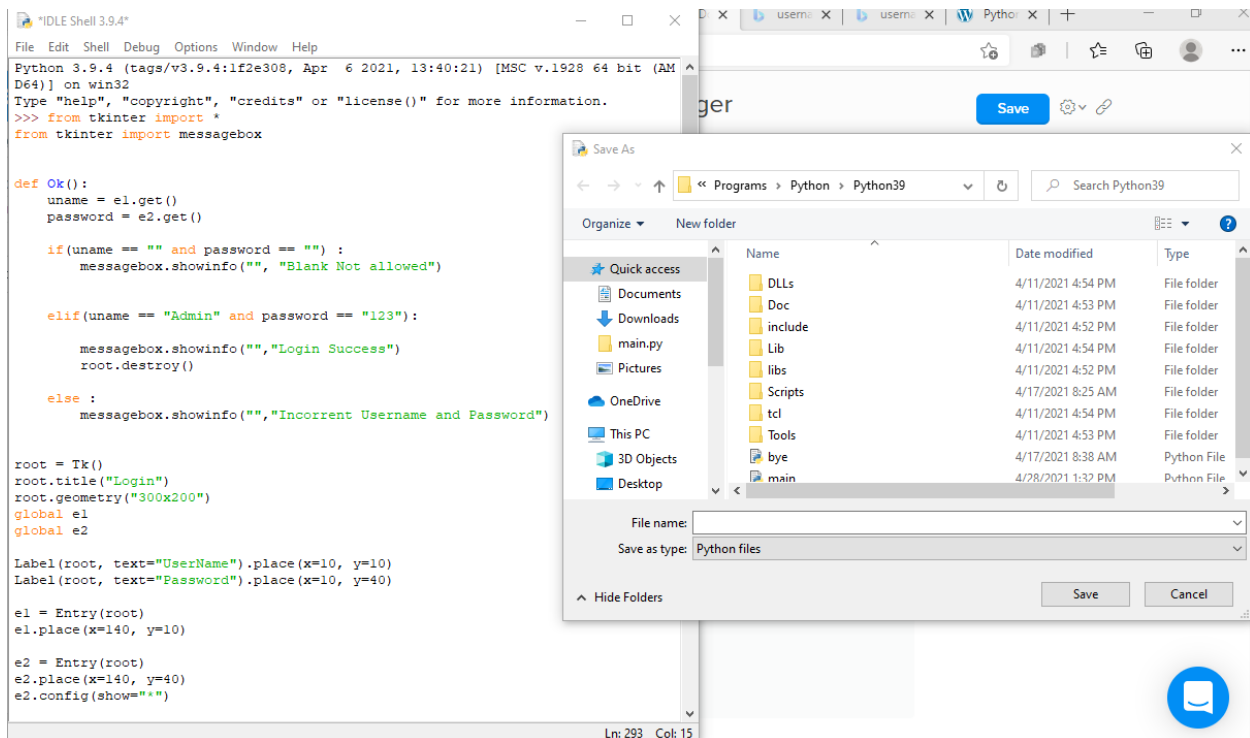
*Be aware of the Ln: and Col: highlighted on the bottom right of the image. Your document should match

Step 10: Next you want to roll over the term "File" at the top left corner and move mouse down to "Save as" Click on it and a screen like below should pop up.

Step 11: Save file as a name you can remember. For my instance, I chose the word "main" and pressed Save

Step 12: After you save it will take you back to the Idle screen where the top name is changed and you will see "(the name you chose) .py" so in my case the top states "Main.py"
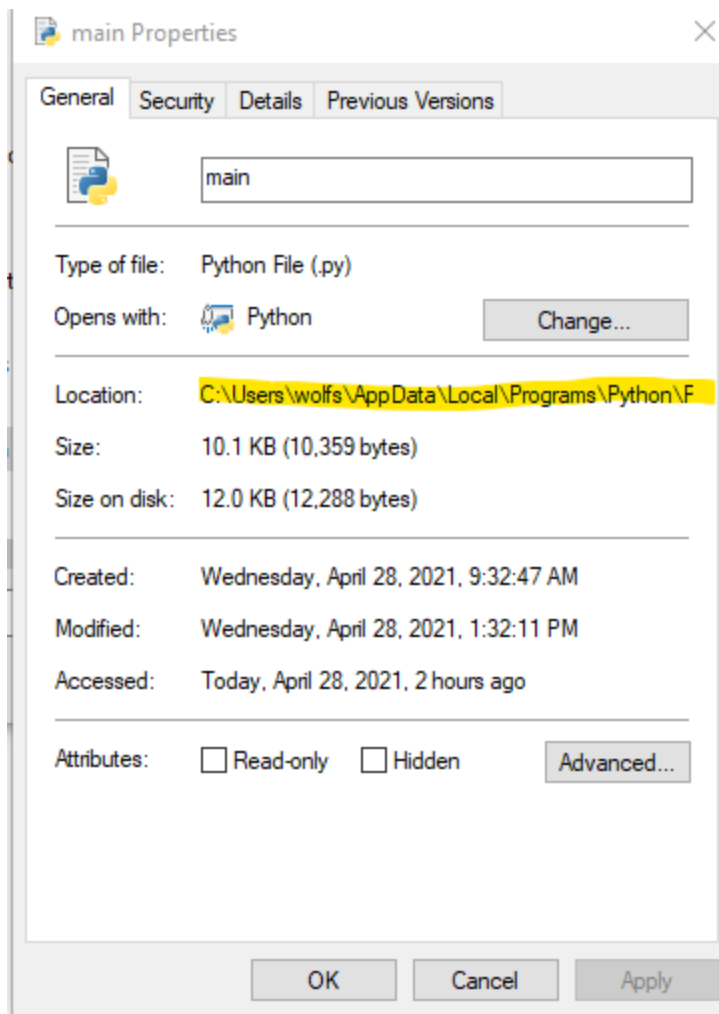
*It should look like image below
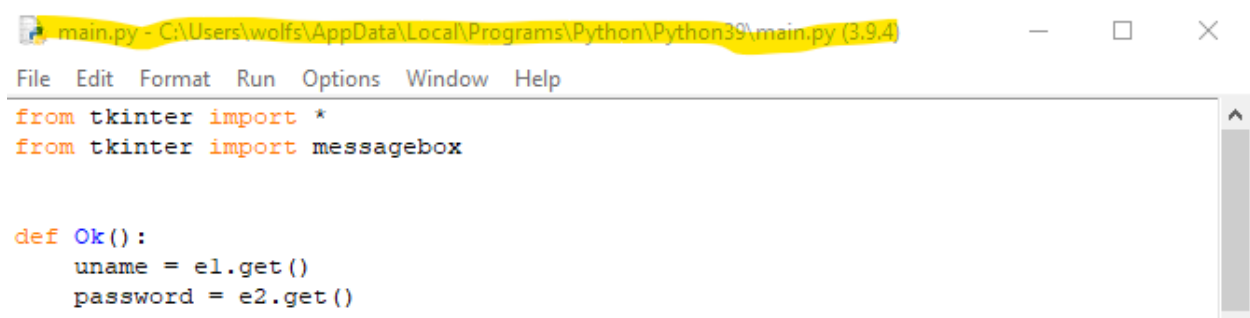


These are all the resources needed to Run this app.

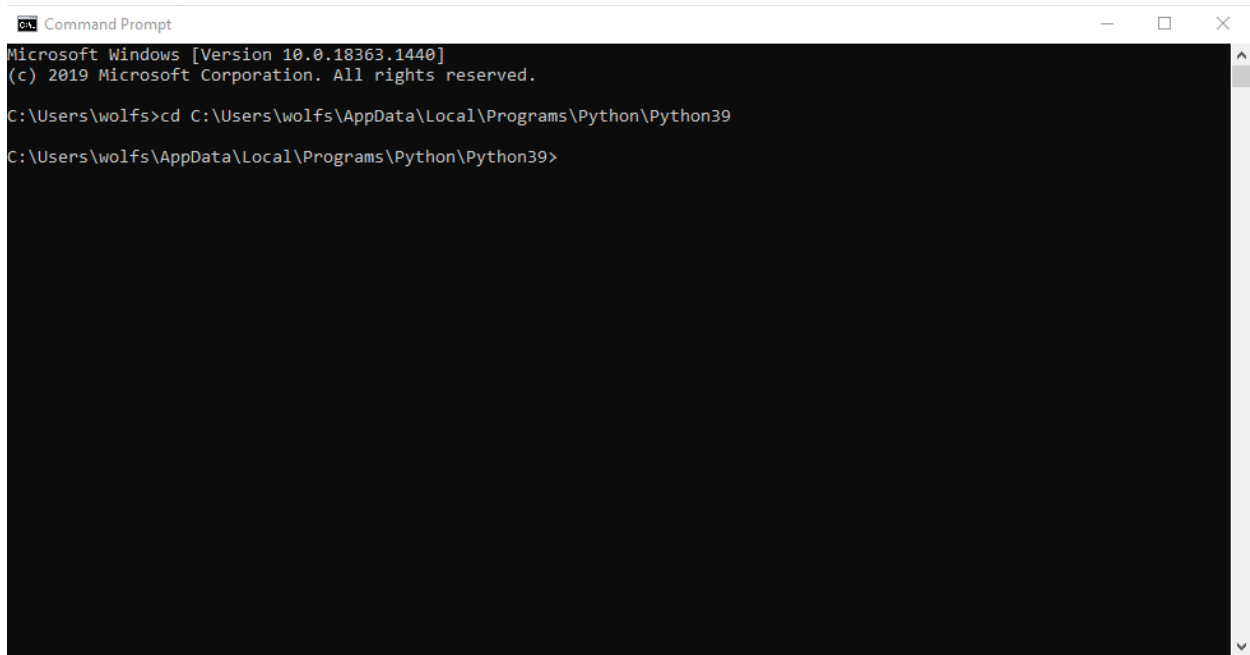**c) Actually Running Steps of the Application**

Step 13: Roll over "File" again and press "Open.." Right click on your file name and scroll down to "Properties" Copy the full location of the file. The screen below should pop up and the highlighted is what needs to be copied.

Step 14: Now that you have the location copied, Open Windows Command Prompt back up
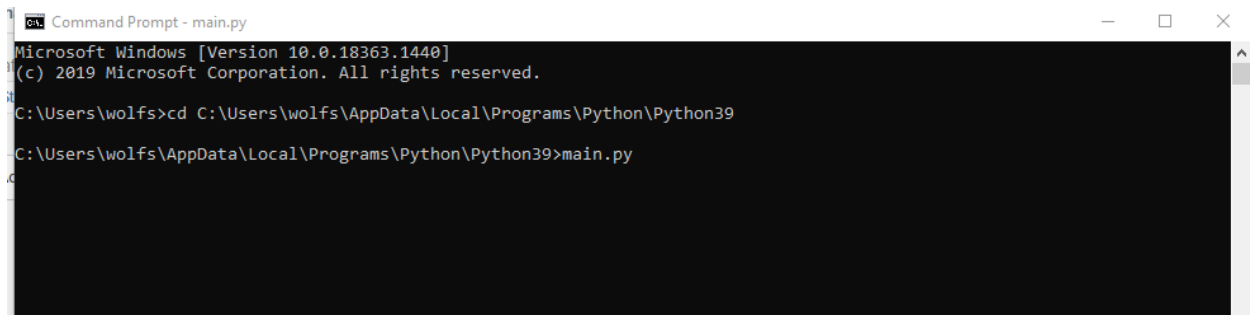Step 15: type in cd (Paste the location) then press ENTER
It should look similar to the image below

Step 16: Type in the file name you saved the IDLE file you named containing the code



Step 17: Now press ENTER

Step 18: Now you will see the first window of the application. This is the Username and Password Authentication Security Principle
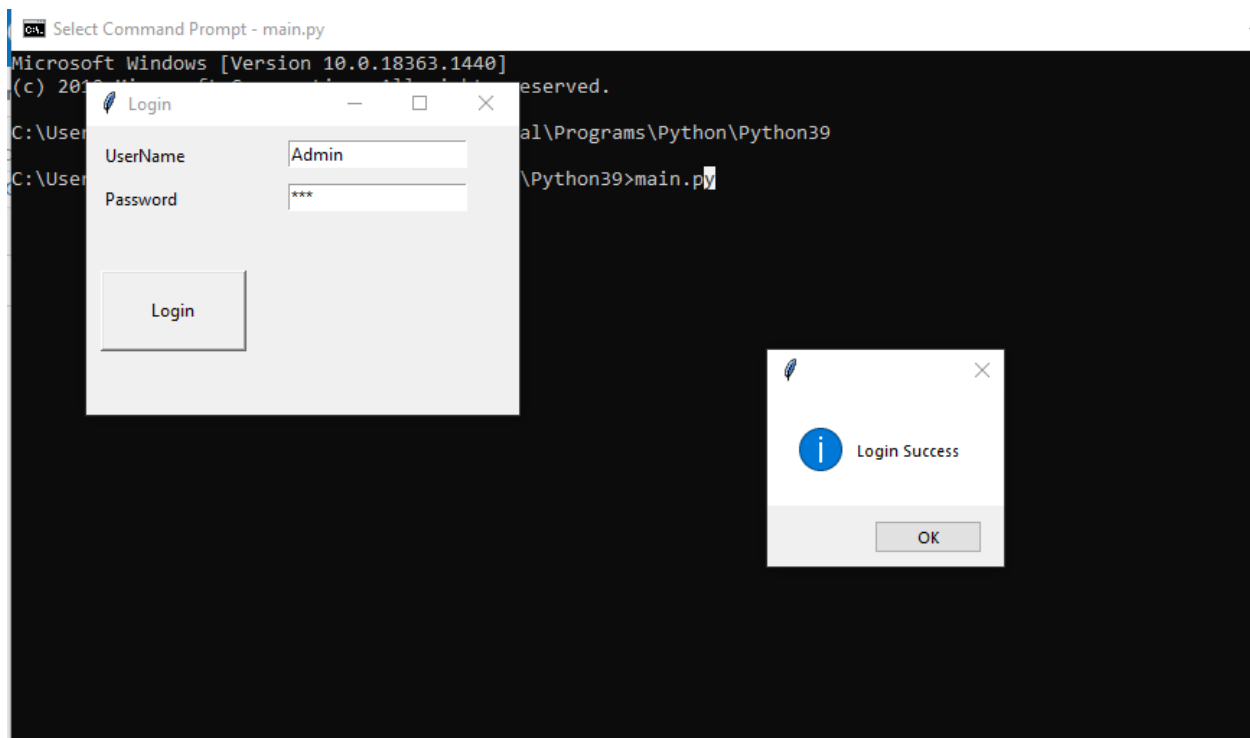
Step 19: The ONLY username is: Admin (The A in admin must be capitalized, or it will NOT GIVE YOU ACCESS)

The ONLY password is: 123

Step 20: These are the ONLY credentials that allow access in to the Restaurant Management Application anything else will lead you to an incorrect password screen as below
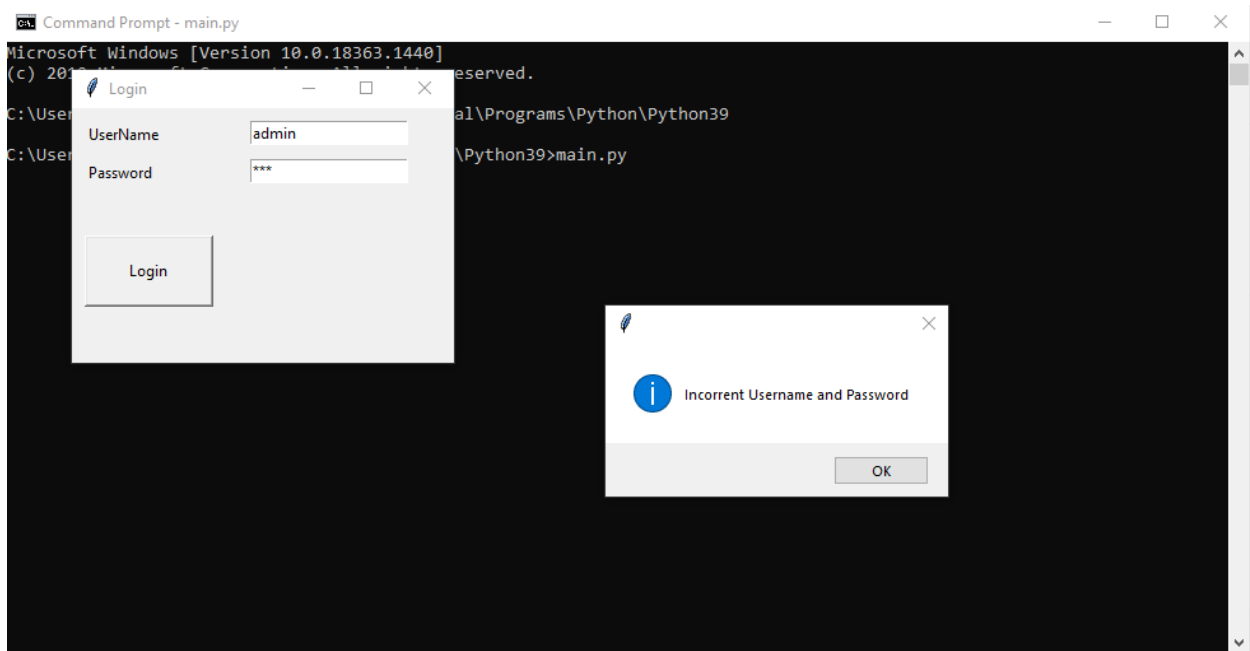
A CORRECT STATUS WILL LOOK LIKE THE IMAGE BELOW



Step 21: Now you will press "Ok" This will open up the next Python window where the Restaurant Manager is accessed. Image shown below. This is an indication of ACCESS CONTROL

- This is where you can work with the app. Inputting numbers of how many of a certain menu item the customer had and then you press "Total" and it will give you the Cost of the Meal, Service Charge, Tax, Sub Total, and Total Cost.
  The pricing of the menu items is shown when you press the button "Price" So you can check the work of the application.
  You can always restart by pressing "Reset" and you can leave by pressing "Exit"
  Below I will Complete an Example (THIS IS AN INDICATION OF INPUT AND OUTPUT VALIDATION)

Example:
A customer orders 1 order of fries, 2 orders of noodles, and 1 order of Soup. Now I will press Total

The total cost is $556.65
Lets Check the work. Press Price



| Item Price List | | — □ ✕ | **t Management Software** | — □ |
| --- | --- | --- | --- | --- |

| ITEM | PRICE |
| --- | --- |
| Fries | 140 |
| Noodles | 90 |
| Soup | 140 |
| Burger | 260 |
| Sandwich | 300 |
| Drinks | 65 |

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Codezine[https://thecodezine.com]

| | | | |
| --- | --- | --- | --- |
| Order No | 448883 | Drinks | |
| Fries | 1 | Cost of Meal | Rs 460.00 |
| Noodles | 2 | Service Charge | Rs 4.65 |
| Soup | 1 | Tax | Rs 92.00 |
| Burger | | Sub Total | Rs 460.00 |
| Sandwich | | Total Cost | Rs 556.65 |

| PRICE | Total | Reset | Exit |
| --- | --- | --- | --- |

1 Order of Fries: 140
2 Orders of Noodles: 90
1 Order of Soup: 140
Cost of Meal: 460
Cost of Meal + Service Charge + Tax = 556.65
Total Cost: 556.65
The Application Works!