CEIS 150 PROJECT: PYTHON STOCK TRACKING SHEET

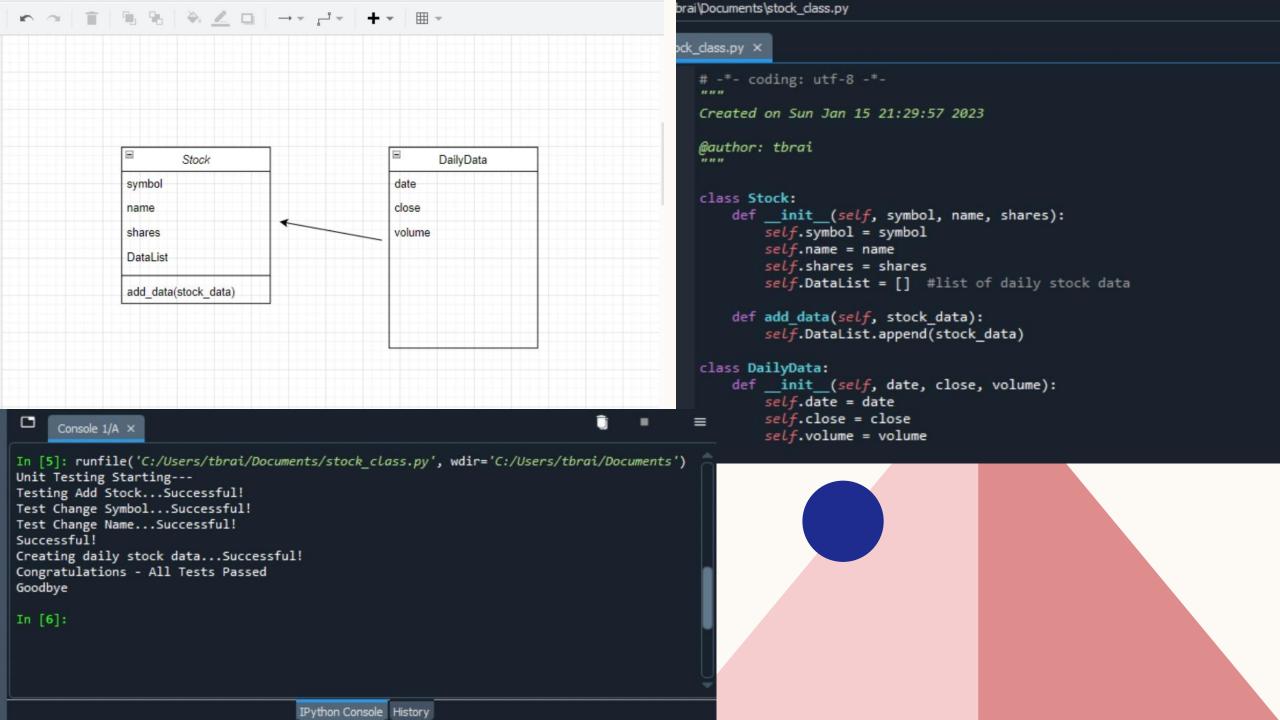
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INTRODUCTION

I designed a program in python that had a multifunction menu. You can add, delete, and list stocks as well as add daily data, and show a chart.

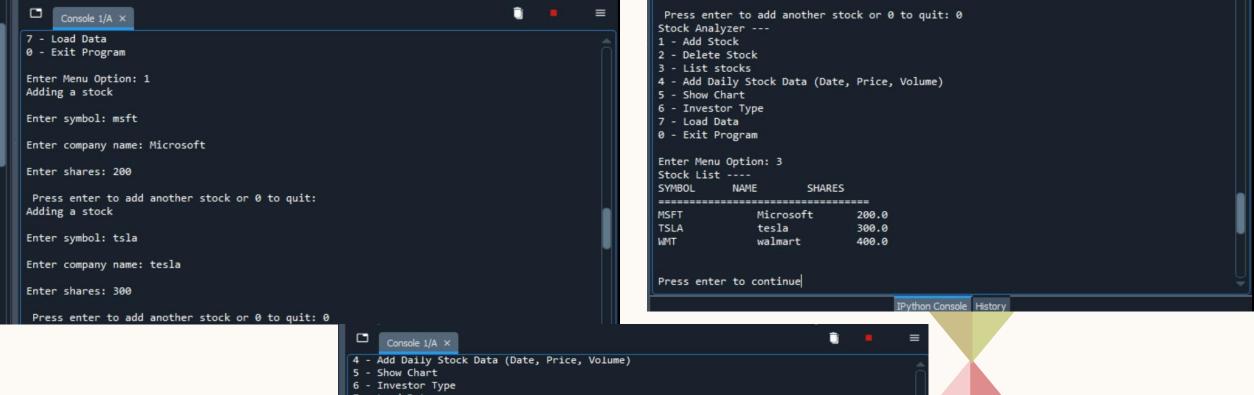
CLASS DIAGRAMS, CODING, AND UNIT TESTING

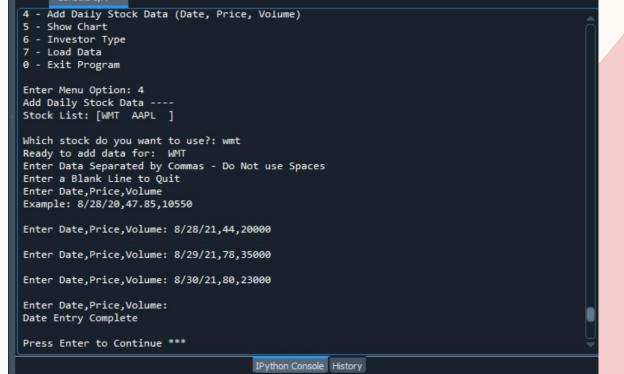
First I Created a Diagram to show what variables need to apply to each stock. I then began coding each Class and definition for parameters. I finished with a Unit test to make sure calculations followed as expected.



ADDING STOCKS AND DATA, AND LISTING

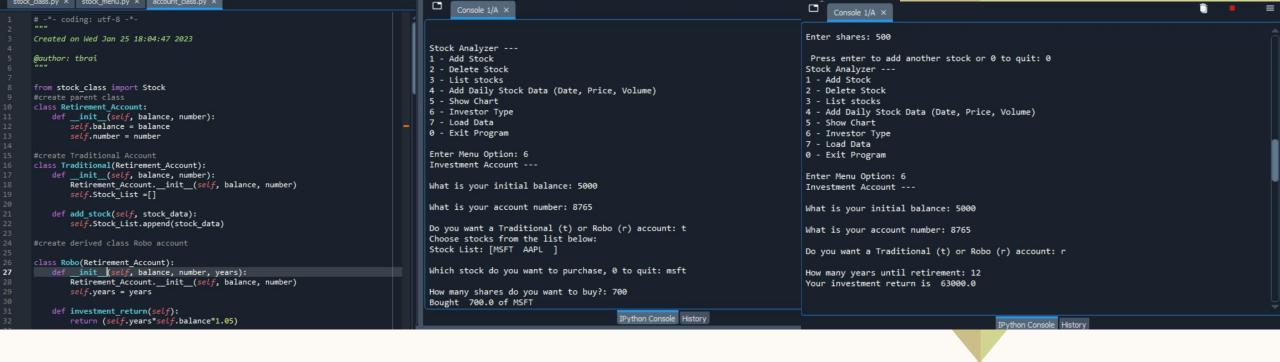
I coded the functions for adding a stock and listing a stock. I tested them listing a few stocks and entered daily data for one of them.

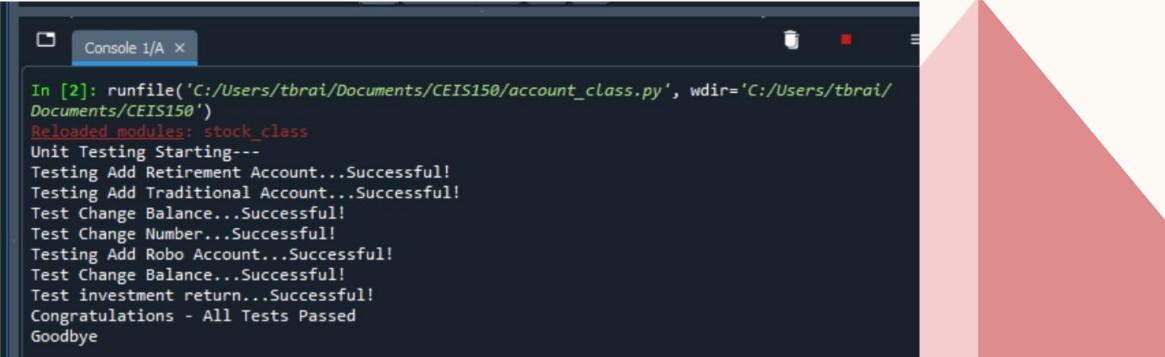




INHERITANCE WITH CLASSES

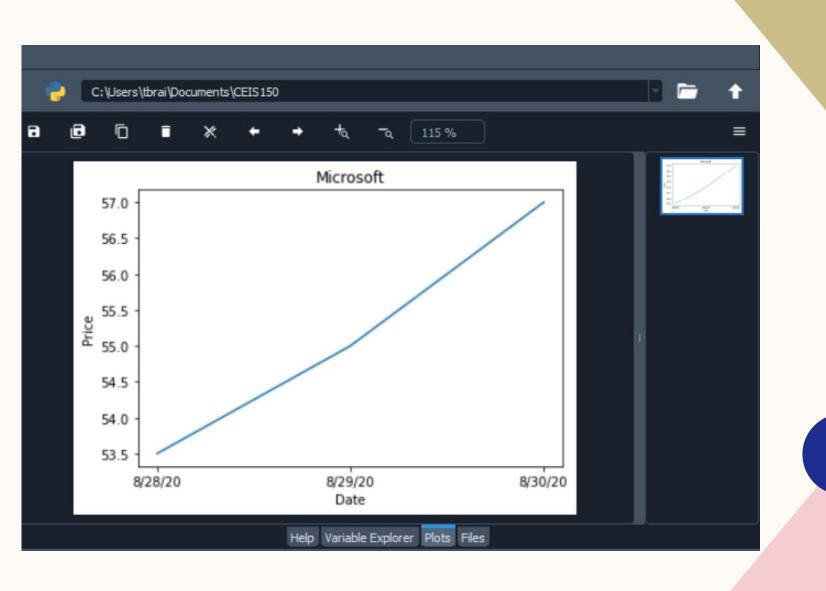
I created several more classes in a separate file. These classes inherit the properties which means I can use the properties from the main class for the other ones. I followed up with a Unit test.





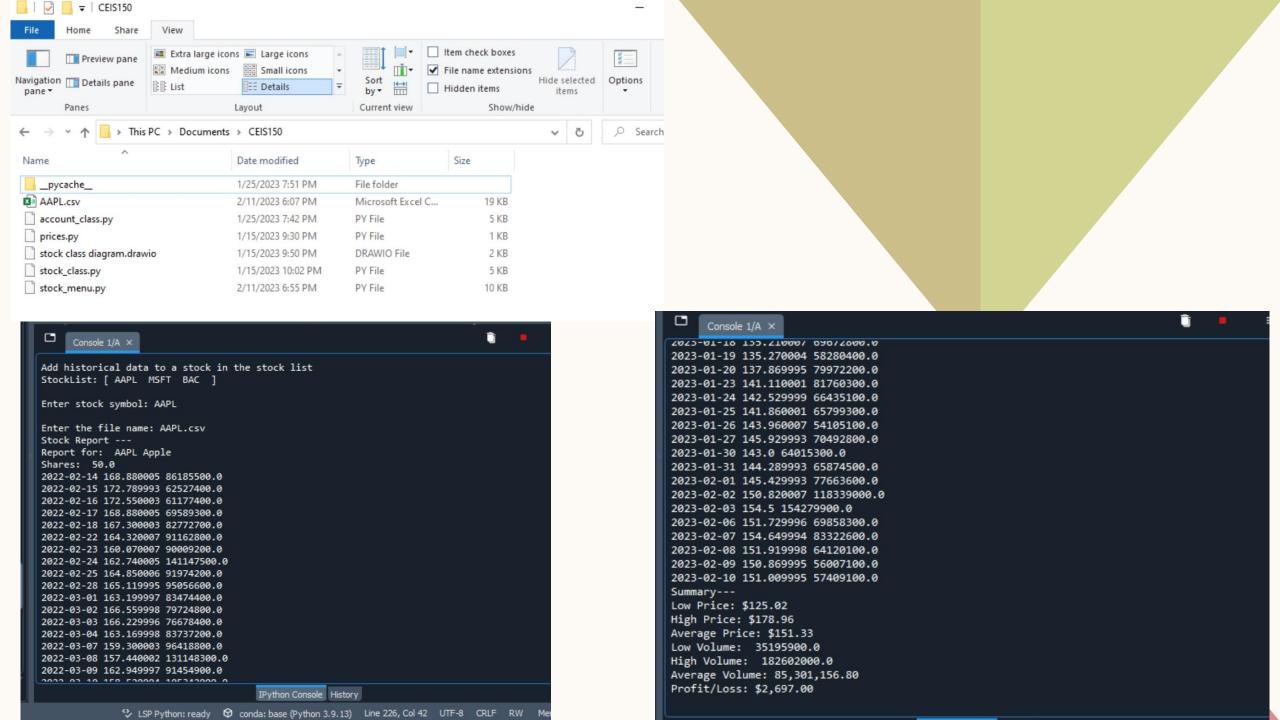
CREATING A CHART

I used a python library for plotting on a graph to take information entered for the daily data and display it in a chart



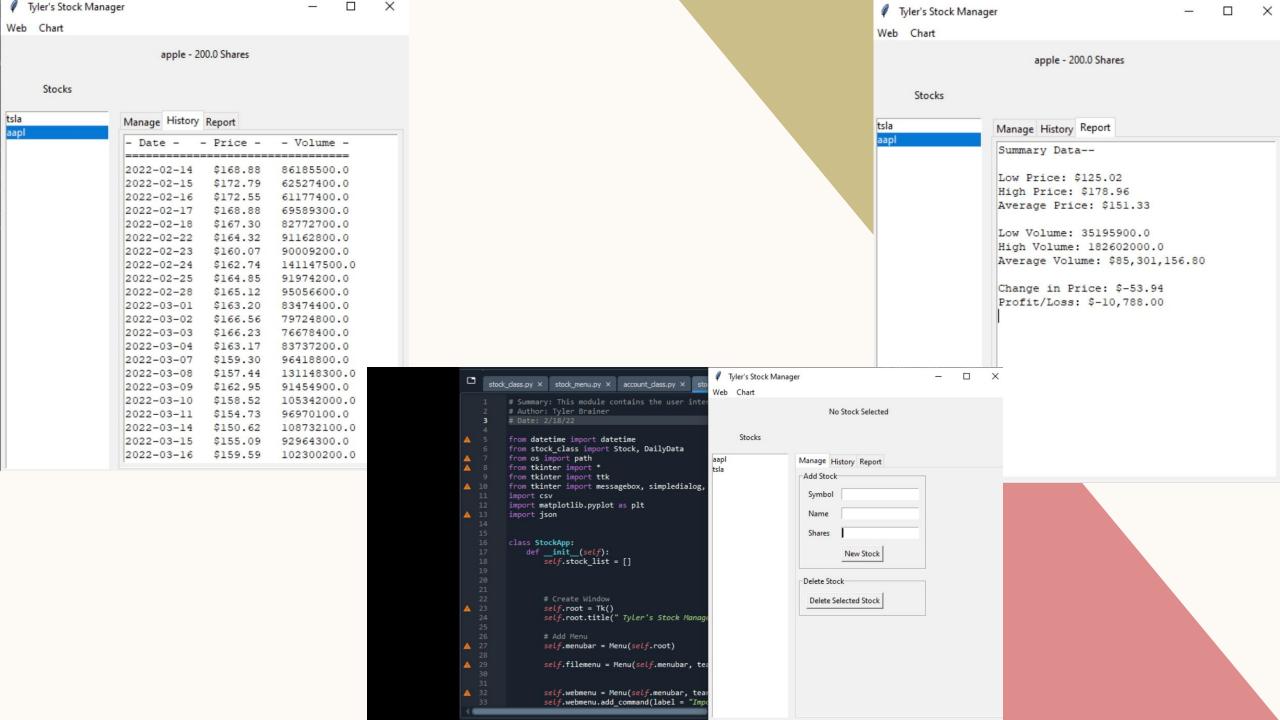
LOADING DATA

I used data from a CSV file to display historical history of a stock to the user.



CREATING A GUI

I created a GUI for my program to be better suited for the end user. This included adding and deleting a stock, importing web data (CSV), and history and report tab



CAREER SKILLS DEVELOPED

- Coding using python
- Object oriented programming
- Using python libraries
- Web Scrapping in programming

CONCLUSION

In this project I learned how to use object oriented programming to code more efficiently. I have a better understanding of how to use data from the web to implement in the program as well as programming syntax. I enjoyed programming each step and seeing the final project come together.