The final assessment for this course is to Plot a graph using data visualization technique. Adding to the previous assignment here I have to create a test case and implement using the data that is used to visualize the data. All the data is stored in 2 types of files one is CSV and the other is JSON file. Using pandas and data frames I read the data from the CSV file. Also, for plotting data I have used matplotlib library. Initially while plotting the graph, I had issue with the graph, Using invert I had to change the X-axis. From Week-9 Lecture I have created a test case that using assertEqual. We can also build test case using assertIN.

**Describe the updates you included in your work based on the instructor feedback given in previous submissions. Are there areas you would like to still improve it in.**

In week 8 I have not added try/except in my code. In week10 I have added try/expect errors for my code. Also, I have changed the variable names. I have also added comments for the code in order to easily understand. Also I tried plotting the graph using pygal library, I would like to improve the code in terms of plotting. I tried adding test cases to my code. I built two test cases. One that runs and passes with no error and the other with error. I Would like improve my code using other functions and make it as concise code.

**Can you think of other functionality that would be beneficial?**

I tried running my code using python API (yahoo Finance) and pygal library for plotting the graph. For this program, Python API(Yahoo Finance) would help us to get the new stock name and current stock price.

**What was your experience implementing the new functionality?**

I found that matplotlib has more visualizations than pygal. It is easy to modify and export your plot using matplotlib. As I am new to python Visualization techniques, while working with pygal I had to face errors and tired to find a solution from online resources.

**Was the functionality hard to implement?**

I felt it was hard to implement line chart using pygal data visualization technique. Since Pygal data visualization provides only Bar chart, tree map, Pie chart, Gauge chart. As I chose my line graph to be my output, I had to use matplotlib in order to get the desired Output.

**Was the documentation easy or difficult to find?**

I found easy to find the document. The way it was organized made easy to find and interpret the data. These documents were very useful and helpful for all my discussions and assignments.

**Show screenshots of your added functionality at work.**