Reflection

1. The security mechanisms in place to make sure only the right people can pull the data are the api key. Each individual must get their personalized api key through the Yahoo Finance website and without this key they will get an authorization error and not be able to access the information.
2. The main error that I encountered was that I was not able to access the modules within “QuoteSummary”. Professor Williamson helped me figure out how to fix this issue which involved crafting the url with the stock in it. Some errors I encountered with how a user might use the program were with the user’s input for the stock ticker. At first I was putting in an incorrect stock ticker that happened to be a mutual fund and this caused a key error since some of the variables did not apply to a mutual fund. Another error was if a user put in a ticker for a stock that didn’t exist, the code output an out of range error. However, I changed this so that “stock does not exist.” is output instead so the user knows what went wrong. I didn’t really have any coding errors besides having to figure out how to correctly combine the data frames of the output and write the file to a csv and json.
3. When I didn’t know how to code something I looked at the “Requesting Data From APIs” file as well as the stock example posted in the GitHub. These were very useful in seeing how to gracefully handle errors and extract the stock variables. I also used the Yahoo Finance API site to figure out how to create my own api key and I used the Specifications page to see what url and module each variable was in. I also used ChatGpt to figure out how to write a file to a dataframe and csv and how to handle the error if a stock did not exist.