THE PROBLEM:
A portfolio can have stocks and currency assets (Cash in a particular currency, normally acquired through Forex transactions). We want to be able to track the assets, the average purchase cost and value the portfolio using current exchange rates.

The code currently handles only domestic stocks

THE CHALLENGE:

1.) Modify the design to accommodate multiple asset types:
   a. currency assets (i.e. 1000 EUR)
   b. currency denominated stocks (i.e. stock in GBP)
   c. the design should be extendable to accommodate new asset types in the future
2.) Adjust the design to allow valuing the portfolio in any currency (i.e. given current exchange rates, be able to find the value of the entire portfolio, for example, in USD, GBP, EUR, etc.)
3.) Complete the function to consolidate the portfolio by unique asset and average cost.
   a. For example if the portfolio consists of the following assets:
      i. 100 shares of ABC stock at $2 USD
      ii. 200 shares of ABC stock at $3.50 USD
      iii. Cash of 1000 EUR
      iv. Cash of 200 EUR
   b. The consolidated portfolio will have two assets:
      i. 300 shares of ABC stock at $3 USD
      ii. Cash of 1200 EUR

[For simplicity, we assume the stock market is at the same price we bought at, and value is based on cost. For extra credit, implement value using mark to market]

Feel free to make any changes to the initial code, use any libraries or add additional projects. You have a maximum of one week to complete the challenge.