

**THE PROBLEM:**

A portfolio can have domestic stocks, foreign currency denominated stocks and currency assets (FX). 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. foreign currency assets (i.e. 1000 EUR at current exchange rate)
  - b. foreign currency denominated stocks (i.e. stock denominated 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 security and average cost. For example if the portfolio consists of 100 shares of ABC at \$2 and 200 shares of ABC at \$3.50, the consolidated portfolio will have 300 shares of ABC at \$3.

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.