Homework 3

This homework will help you to understand the following:

    (1) The asynchronous, event-driven flow of control of Node.js
    (2) How generator functions work
    (3) How to use process.stdin
    (4) Sequencing asynchronous logic

This homework is based on the following reading material:

    (1) Node.js in Action, Second Edition; Chapter 2, especially the code in Listing 2.17.
    (2) JavaScript The Definitive Guide; Chapter 6, especially page 135.
    (3) JavaScript The Definitive Guide; Chapter 8, especially arrow functions (8.1.3).
    (4) JavaScript The Definitive Guide; Section 12.3. Generators.
    (5) Secrets of the JavaScript Ninja, Second Edition; Chapter 3, Chapter 4, and Chapter 5 are helpful, not essential.

I will provide the skeleton of the code. You may not change that skeleton. You have to fill in the needed code to meet the functionality that the homework is asking. The name of the attached file with the skeleton code is "SkeletonHmwk1.js".

That functionality is as follows:

The user is asked by the application the following questions in the same order as defined below:

    (1) The stock name.
    (2) The number of shares of stock of the name given.
    (3) The price of each stock unit.

The program needs to terminate if the users types a "q" when asked for the stock name. When this happens, the program calculates the total value of the holdings of the user as entered in the program, and prints this value to the console.