Java Vending Machine Exercise

# Summary

Build a simple Java application that implements the business logic for operating a simple vending machine. The following functionality should be provided.

* A simple interface for ingesting items added to the machine via a delimited file following the format listed below.
* Ingested items should be assigned a slot from 1-10 the machine should not have the ability to hold more than 10 different types of items, and 100 items overall
* A CLI should be presented to the user with a few options
  + List items for sale along with their price
    - The Item list will include the item’s name, the item’s slot (1-10) and price
  + Purchase an item
    - The purchase option will accept a slot number and quantity
    - If a sufficient amount of money has added to the machine, the items should be vended, and any change returned
    - If an in sufficient amount of money has been added a message should be provided indicating the amount of money that needs to be added.
    - If there is insufficient inventory available to meet fill the request. What is available is vended, along with a message indicating that not enough inventory was present.
  + Accept money
    - The machine should accept money in the provided increments
      * Nickels, dimes, quarters, $1, and $5
      * The machine should not accept any other denominations
      * The machine should not accept more than $20 at a time
  + Return money
    - The machine should return any money that has been added, but hasn’t been spent.

# Assumptions

* Assume this is a production system and build it accordingly
* As stated above the interface can be a simple CLI the focus should be on the business logic, not the presentation
* Assume that it is possible upload multiple product files in a given sessions
* Inventory data is either stored in memory or a separate flat file. A database is not available.

# Deliverables

* The full project source code
* A README file that describes how to build and run the application
* Any supporting files/documentation deemed necessary.

# Time Expectations

* 4-5 hours

# Delimited File Format

Item name|quantity|price

Example

Snickers Bar| 10| 0.99|

Bubble gum| 15| 0.75|

Soda|5| 1.25|