Assignment #2: Implement a Java program

Manage a Video Store Inventory

CS 4354 Fall 2012
Instructor: Jill Seaman

Due: in class **Monday, 10/1/2012** (upload electronic copy by 11:30am)

Problem:

Write a Java program that will allow a user to manage the inventory of a store that sells DVDs.

The inventory for the video store will contain the following information for each movie (each title) in the inventory:
SKU   (stock-keeping unit, an integer)
quantity   (number of copies in inventory)
price   (dollars and cents)
title   (may contain spaces in it)

Note: You may assume the video store has less than 10,000 titles.

The program should offer the user a menu with the following options:
1. Add a movie to the inventory (prompt user for input values).
2. Remove a movie from the inventory (by sku).
3. Display the information for a movie (given the sku).
4. Display the inventory in a table.
5. Quit

The program should perform the operation selected by number and then re-display the menu. If the operation fails (i.e. attempt to remove a movie not in the inventory) your program should display a message.

Do not change the menu numbers associated with the operations.

Your program should store the inventory in a file between executions of the program, so that when the program is run again it will start up with the same inventory contents as when it last terminated.

NOTES:

- You may use an IDE (Eclipse, netbeans, etc) or just an editor and command line operations (javac, java) in unix or windows/dos to develop your program.

- Use an array of objects to store the inventory.

- You may use the EasyIn package for doing input (see resources on TRACS).

- Prices should be output in standard money format: ($7.95).

- **Style guidelines:** comment the following: definitions of variables, constants, class members, sections of code, and functions (description+parameter descriptions+what it returns, if anything). Mind your line length and indentation. Use named constants as needed. Use static elements only as truly necessary.

Logistics:

I prefer you not use any features of Java that we have not yet covered in class.

Please submit your java files in a single zip file (assign2_xxxxxx.zip). The xxxxx is your TX State NetID (mine is js236).

Submit: an electronic copy only, using the Assignments tool on the TRACS website for this class.