CSCI 300 Assign 02: File Processing

Please save your project as **YourLastNameAssign02** (filling in your last name for YourLastName) and zip the entire Eclipse project. Hand in the zipped folder to Blackboard **by the due date**. **No late assignments will be accepted.**

**Note: you will need the input files provided from Blackboard**

**Note: in order to read the files, place them in your project folder (should be in the same location as the src folder, but not *IN* the src folder)**

You are asked to write a program for the owner of a hardware store to help him keep track of his inventory. You have the following input files to work with:

productList.dat contains the products sold in the store:

* SKU number for the product
* Short name for the product
* Cost of the item
* Quantity of items in stock

transactions.txt is a file created by another system at the end of each day that gives you a summary of the number of items sold by SKU number for that day. The file contains the following fields:

* SKU number
* Quantity sold for that SKU number

In order to manage your inventory, your program should give the store manager the option to either view the current product inventory, or run his “end of day routine”. The end of day routine will ask him for the name of the transactions file, and update the quantity of his inventory based on the records in the transactions file.

When your program first starts running, the manager will see the following menu:

1. View Product List

2. Run end of day routine

A sample execution of each menu item is provided on the following page.

**1. View Product List**

1. View Product List

2. Run end of day routine

1

SKU Product Cost Qty

-----------------------------------------------

1234 Air Compressor $57.98 7

2345 Hammer $11.99 76

3456 Saw $11.00 21

4567 Screwdriver $6.99 106

5678 Wrench $7.50 34

**Your formatting MUST match mine!**

**2. Run end of day routine**

When you run end of day routine, the store manager would like the old inventory file archived in order to be able to keep daily history. To do this, you will need to rename the current productList file, and write all the output to a **new** file. To keep things organized, you should name the old file to:

“yyyy\_mm\_dd\_productList.dat” with yyyy\_mm\_dd being substituted with the current year, month, and day. To help you with this, the following code prints the date in yyyy\_MM\_dd format:

DateFormat dateFormat = **new** SimpleDateFormat("yyyy\_MM\_dd");

Calendar cal = Calendar.*getInstance*();

System.*out*.println(dateFormat.format(cal.getTime()));

After renaming the file, you should then create a new file named “productList.txt”. Keep in mind that not every product will have sold on any given day, so you will need to read the full product list into your program, make updates to the appropriate records, and write the output to a new file. A sample execution is provided below:

1. View Product List

2. Run end of day routine

2

Please enter a filename:

transactions.txt

Processing has been completed. Here is your updated inventory:

SKU Product Cost Qty

-----------------------------------------------

1234 Air Compressor $57.98 6

2345 Hammer $11.99 76

3456 Saw $11.00 18

4567 Screwdriver $6.99 106

5678 Wrench $7.50 33