CIS611 – Spring 2017
Individual Practice Programming Assignment: PA09

Due: Friday Apr 14, 2017 11:59pm

Total Points: 20
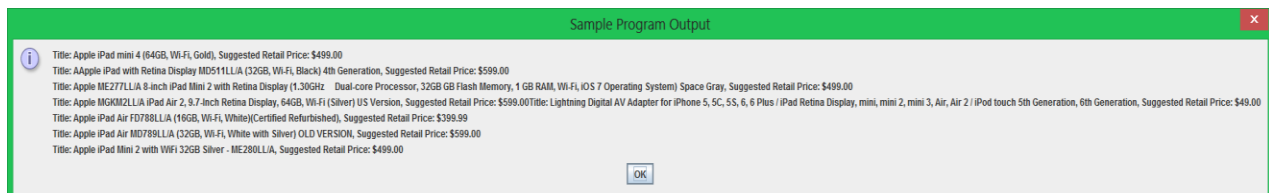
Regex

Q1 (20 points)**:**
 Write a Java program that reads text strings from the enclosed retail store web source file "RetailStore.txt". Then, the program parses the data to return a list of matches for two things, all products' names and their suggested retail prices (**Product Title** and **Suggested Retail Price**.) The program must ignore (i.e., it does not return) products that do not have the suggested retail prices data.

Use the `Pattern` and `Matcher` classes in the Java regex package to scrape the given input data file in order to find the required information. All retrieved data should be stored in a file (e.g., "matcherout.txt"). Also, the program output must be displayed in a single JOPtionPane message box. You must use the `'\n'` symbol to split the text lines in the output file and also in the output dialog message box. It is optional to use the `FileChooser` class to find the input data file in your local drive. If you do not use the JFileChooser, you can hard code the file path in the program. You can simply place the "RetailStore.txt" file in the PA08 project folder (outside /src folder), then use the file name in the File class constructor argument.

A sample run of the program output is provided below showing how the output will look. Note, this is not a complete list of the fetched data, your program will have more data lines than displayed in the figure below (i.e., each line must display "**Product Title and Suggested Retail Price**"). The retrieved data should also be stored in the output file in the exact format as displayed below.

Evaluation Criteria:
- The program must compile cleanly (no compile errors, but compile warnings are sometimes accepted)
- The program must not crash while running and it should terminate gracefully, use try catch blocks as applicable
- All tasks (requirements) in this assignment must be completed in order to receive credit

- The correct understanding and implementation (coding) of the requirements (programs should behave as anticipated):
  - The program must terminate with proper/correct outputs

Submission: (<u>This is an individual Assignment!</u>)

Copy the .java source files from the *src* folder in your *work space* to another folder that should be named following the provided naming format in this course, then zip and upload the file under this assignment answer in Canvas.

File Name: *FLLLLPA08.zip (F = first letter in your first name and LLLL = your last name)*

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PA09

Name: _____

Question 1

Requirements	Any comment provided by grader	Max Points Allowed	Points Earned
General Code Structure: Proper naming convention used for file, Comments used in the code to explain the purpose of the code, Indentation of the code for better readability, Good choice of variable names, proper implementation of the class.		5	
Input, Output, User Interface: Proper coding implementation of the logic to read the data and display the expected value, proper coding implementation of dialog box/boxes, general aesthetics of user interface. Any exception handling, file I/O, display of Product Title and Suggested Retail Price.		5	
General Algorithm and Logic: Proper instantiation of the logic, use of Pattern and Matcher class.		10	
		20	

Total _____/20