Comp 170 Presentation Assignment – A Program I Wrote

As in the course syllabus, late assignments will not be accepted unless you have completed the process for using a late pass before the due date.

1. Submit

Online in Sakai before the due date. You can *save* files in the Sakai assignment as often as you wish (and remove them or update them), but you can only submit *once* before the due date.

Submit the .java file for your work. It must be from the proper tool, proper version as used in the class. Include the necessary comments as described below.

Some or all of you will be asked to present you program in class. Your presentation is to be allowing others to read the code, demonstrate your program running, and then point out key things you learned in the code.

2. Content

Summary: You are to pick, design, write a program of your choice using features we have covered in class. You may optionally use features that we have not covered yet as well (arrays, functions etc.) The program needs to be about 50 lines of code and can be more. The program must include documentation as described below including pseudo code (don't count these as code lines).

The program should probably include getting input from the user, providing results, and programming features such as loops, Boolean expressions and conditionals, and various data types. However, if you have something really interesting you want to do, and it does not include all these, that is fine too.

Here are some ideas of things to do, but you are welcome to pick other things on your own. Just don't make it too hard. You have a chance to do more later on your custom project!

1. A program that reads in strings from the user (as many as they wish), and prints out each one in with the letters reversed. (input is "Hello There!", output is !"erehT olleH". Keep track of the total number of strings and report that at the end.

2. A program that reads in strings from the user (as many as they wish), and then processes each one to pull out words and numbers. The input is separated by / for example "/dog/23/14/fish/out/exam/17/" and can be numbers and words in any order. Your program adds up all the numbers and counts all the words, printing out the results for each line and at the end for all lines entered. Hint: use the character after the / to determine if the next token is a word or number.
3. From the textbook, Chp4, PP 7 (bouncing ball), pg 260
4. From the textbook, Chp4, PP 11 (war code), pg 261
5. From the textbook, anything in the graphics supplements to each chapter

Documentation required: Include as comments in the code: a brief statement of what your program does (requirements, the "what"), complete pseudo code for your program ("how" your program works), and Things you learned (anything interesting, problems….)

In Comp 170, you will get 0 (ZERO) points for programs that do not compile in the correct version of the tools as used in class

3. Grading
20 points total; 5 points each requirements and pseudo code, 10 points for running program with proper programming style.