Assignment 2
CSCI 1226: Introduction to Computer Science and Programming

Dr. Tami Meredith, Spring 2013

A. Pre-activity preparation:

Ensure that you have had Assignment 1 marked if you were unable to before the end of the last recitation. Review the procedure for compiling and executing (i.e., running) a Java program and check to see that you have a folder prepared for this Assignment (see the Assignment 1 instructions for details).

B. Before you leave today:

Download the file `average.java` into your `Assign2` folder (i.e., right-click and save link as or save the target as). Compile and run `average.java` and observe the output. It should be:

```
The average of 75 and 137 is 106.0.
```

Now add a new integer variable named `num3` and assign the value 25 to this variable, and then modify the program so that it calculates the average of the 3 numbers instead of 2. Re-compile and run the program again. It should display the average of all the 3 numbers. Also, modify `System.out.println` statement so that the output will look like this (i.e. displays the 3rd value in the output as well):

```
The average of 75, 137, and 25 is 79.0.
```

If the average is 118.5, then you're probably dividing the sum by 2.0f instead of by 3.0f and if you're getting 70.666666..., then you probably forgot to add the 3rd number. Demonstrate your result to the lab instructor. If you wish, you may complete Part C and demonstrate both parts at the same time.

C: To complete the assignment:

Add variables of type `float` that are named `sum` and `product`, and modify the program so that it calculates the sum and product of the 3 numbers in addition to the average that is already calculated. You will need to add two more `System.out.println` statements to print the sum and the product.

This part should (preferably) be shown to the lab instructor before you leave. However, if circumstances prevent you from finishing it, you may demonstrate your solution to the instructor at the beginning of the next recitation.

Notes:

1. There is nothing to submit. You must demonstrate your working solution to the lab instructor to receive a grade. Your lab instructor may ask to see your source code as well as the output.
2. Formatting and code appearance matters. Your code must have a comment that indicates it was written by you. Proper indentation must be used.
3. Calculating an average uses the sum. Is it necessary to calculate the sum twice?

You can ask to have each part of your assignment graded ONCE only. This limitation is to force you to evaluate your own work rather developing a reliance on the lab instructor to find all the faults for you.