EECS 1510 Introduction to OOP

Project 1 - Using NetBeans for Java

60 Points - Due Thursday January 26 in class
(Submission on Tuesday January 31 is also allowed)

Update 1 – There was a missing closing brace in the original.
Update 2 – Submission in classon Tuesday January 31 is also allowed

Submit both parts of this project as one unit, stapled together.

Part 1 (30 points)

The protocol for this program is for this program only. The project may be done on a lab computer or on you own laptop. Enter the program. given below into NetBeans, and put your name on the first comment line of the program, as below. Duplicate the format of the program ***exactly*** as given. The spacing is important.

Show this program working directly to the peer mentor. Also show the peer mentor that you can set a breakpoint in the program, run the program step by step, and check the status of a variable.

When you have completed the above, get a printout of the program and a printout of a sample run, and have a peer mentor sign the program in handwriting. The signature is to confirm that the peer mentor has observed your run of the program AND your step by step use of the debugger.

Part 2 (30 points)

Unit Pricing Write your own Java program to read the unit price of an item and the quantity ordered, and then calculate the total amount of the purchase (all integers). You must give the EXACT input and output as shown below. (**Boldface** values are what the user enters.)

```
Please enter the Quantity desired: 5
Please enter the Unit price: 10

The Quantity desired is : 5
The Unit Price is       : $10
The Total Amount is     : $50
```

Program for Part 1

```
import java.util.Scanner;
```

```java
public class CalcAverage {
//  Written by: George Washington
//  Computes the average of a set of values entered by the user, e.g. with
//       10.0  5.0  6.0  9.0  0.0
//  the average is 7.5

public static void main(String[ ] args) {
   Scanner stdin = new Scanner(System.in);
   int    count;
   double number, runningTotal;

   runningTotal = 0;
   count = 0;
   System.out.println("Type the numbers, the last being 0");

   number = stdin.nextDouble();
   while (number != 0) {
     runningTotal = runningTotal + number;
     count = count + 1;
     number = stdin.nextDouble();
   }
   System.out.print("The average of the ");
   System.out.print(count);
   System.out.print(" numbers is ");
   System.out.println(runningTotal/count);
 }}
```