**LAB 1**

**Exercises in Elementary Programming – 10 points**

**Instructions:**

1. After downloading the lab assignment from Blackboard, please write the appropriate Java programs in BlueJ IDE.
2. If stuck anywhere, the instructor and the lab assistant are always there to help.
3. Lab assignments need to be uploaded onto Blackboard by the due date listed on Blackboard.
4. You would need to submit a .docx file. Copy-paste the written code and a sample run of the program.
5. Online resources can ‘definitely’ be consulted. However, please refrain from using content from the internet as-is. The mark of a good programmer is to write clean and genuine code – anytime, anywhere, and always.

*Easy:*

1. Take in 3 double input from console and display their average. (2 points)

*Key Point:*

* Scanner input = new Scanner(System.in);
* input.nextDouble();

1. Take in 1 double input as Celsius. Apply the conversion formula to compute Farenheit. Display result on the console in Farenheit. Verbally report to the instructor of what is considered a ‘safe’ living temperature in Celsius scale. (2 points)

*Key Point:*

* C\*(9/5) + 32 = F

*Medium:*

1. Write Java code to compute x in the following expression: (3 points)

Assume a, b, and c are already computed and are inputted as double onto the console.

*Key Point:*

* Math.pow()
* Numeric computations

Long:

1. Write a program that changes a given amount of money into smaller monetary units. The program lets the user enter an amount as a double value representing a total in dollars and cents, and outputs a report listing the monetary equivalent in the maximum number of dollars, quarters, dimes, nickels, and pennies.

(3 points)