***Lab 2: If and Selection***

*Use comments in your code!*

**Exercise 1**

**Project**:

Create a program that will input the 3 game scores of a player and then output the level of the player with a message.

**Specifications**

Prompt the user to input 3 game scores (double values).

Compute the *weighted average* (DO NOT JUST ADD AND DIVIDE BY 3!) score as follows:

20% for first game, 30% for second game, 50% for last game

Earlier games are worth less in the weighted average; later games are worth more.

Print the level of the player expertise based on the weighted average as follows:

* 1. average >= 2000:  **expert**
  2. average is >= 1800 but is < 2000 **master**
  3. average is >= 1500 but is < 1800: **advanced**
  4. average is >=1000 but is < 1500: **intermediate**
  5. average < 1000: **beginner**

For each **expert**player print: "Congratulations! You are an expert! "

For each player that is **master** or **advanced** print: "Good Job!"

For each player that is a beginner: "Keep on practicing!"

Run the program 2 times on the following input:

Run 1:

600 1500 900

Run 2:

1800 1500 2000

***Exercise 2***

Go back to In Class Lab A where you created a Game Menu.

Modify your code so that the user can input one of the four choices.

Use an if/else statement so that depending on the user’s choice, the correct game will play. If the user inputs a 4 (Exit), your code exits without playing any game.

For the MATH and MADLIBS choices, use your code from Lab 1. For the CHOOSE YOUR OWN ADVENTURE choice, write the code. Write a cohesive story that allows the user to make decisions as to what to do next, and display the story accordingly. For example, you might ask the user if he/she wants to take the A, F, or B train. Depending on the answer, ask another question. Here is a sample output for this question, but you can make yours very different!

*Hello! You are at Atlantic Ave in Brooklyn! Please let me know if you are taking the F, Q or B train!*

*B*

*Great! Enter 1 to go to Manhattan or 2 to go to Coney Island*

*2*

*Wow! You are looking toward a terrific adventure!*

*You are off the train now! Do you want to go jogging on the beach or to the amusement park (enter ‘jogging’ or ‘amusement’)?*

*amusement*

*Have fun! How much money do you want to spend? Once I know that, I will give you a choice of rides! Then you will be on your own!*

*20.00*

*OK! Choose the Bumper Cars or the Rolling Thunder Roller Coaster!*