CECS 130-01
Spring 2017
Lab 2
Lab Assignment due between 2:30 - 4:00 pm Tuesday, January 24, 2017
Please and follow the instructions below very carefully

Demos (To be done by lab Instructors)**:**

1. Create a program that prompts the user to enter the temperature in degrees Fahrenheit the uses the formula:
   celsius = 5(Fahrenheit - 32)/9
   to convert the input temperature to degrees Celsius.

2. Create a program that defines a const variable pi and use it to calculate the area of a circle of radius 5. Demo that trying to reassign the constant variable generate compiler error.

3. Create a program that defiles int, char, float, double variables with short and long qualifiers when appropriate then use the “sizeof()” function to demonstrate the length of these variables in bytes

Lab Assignment (To be uploaded by the student prior to leaving the lab):

1 . Knowing that one mile is equal to 1760 yards. Write a program that prompts the user to enter some distance in miles and convert this distance to yards using the formula
   yards = 1760*miles
   then display the result back to the user.
2. Write a program that demonstrates that variables of type long double uses 16 bytes of memory

Home Assignment (To be uploaded by the student by 9:00 pm Friday Feb 3)**:**

Homework problems will be posted by Dr. Imam on Thursday Jan 26th.

A note about assignments and reports:

Your presentation in your reports and assignments reflects great deal about you, your understanding of the assignment and on how much this course means to you. I try very hard to look at the substance of the report but I will be lying if I said that presentation does not influence my judgment. It would be wise on your part to assume that this true in every course at school and in real life/work. I expect your reports to be well formed and conform to the following rules:

1. ***First and above all, I will not accept any late assignments and I will not accept any assignments by email. All submissions must be via Blackboard and on time.***
2. All reports have to be submitted as a **PDF** report that contains:
   2.1. Title page with your name, assignment number and the day you are actually submitting this report (Not the assignment due date)
   2.2. A comprehensive set of snapshots showing the inputs submitted and outputs obtained in the case of a successful output or a failure.
3. A C/CPP source code file for each programming problem and each must be named problem_n.cpp where nn is the problem number.
4. Make sure that you include as a comment at the top of your file your name and section:
   As an example:

```
/*************************/
/* John Q. Public        */
/* CECS 130-11           */
/* Assignment 35         */
/*************************/
```

   Failure to do this will cost you points.
5. Please zip both the PDF document with the source code files in one zip files that must be named as lastName_firstName_nn.zip where nn is the assignment number, e.g. my zip file for assignment 3 should be called “imam_ibrahim_03.zip”.
6. Please do not submit your eclipse or bloodshed project or any IDE project that you may be using. I will be compiling and testing your source code from the text file in part 2 above to test running your applications and to verify that they run.
7. If you do not follow the instructions above I will not grade your homework and you will get a grade of 0 (zero)