

**CECS 130-01****Spring 2017****Lab 5****Lab Assignment due between 2:30 - 4:00 pm Tuesday, February 14, 2017**

Please and follow the instructions below very carefully

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

1. Do the trivia example from Vine's chapter 5 textbook
2. Do the static example provided.
  - i. Show the difference between const variables and static variables.
  - ii. Move the const variable testConst inside main and determine and explain what happens,
  - iii. Attempt to change

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

1. Write a program that has two functions defined as adder and subtractor that update a running total where:
  - a. adder() prompts the user for an input x then add x to the running total and does not return any value.
  - b. subtractor() prompts the user for an input y then subtracts y from the running total and does not return any value
  - c. The program is to contain a main function that calls adder and subtractor successively 4 times then prints the running total
  - d. The variable representing the running total needs to be defined once and only once and cannot be passed as a parameter to either the adder nor the subtractor.
  - e. The main function has to initialize the running total to 0.
  - f. all variables are integers.

**Home Assignment** (To be uploaded by the student by 9:00 pm Friday Feb 24):

Homework problems will be posted by Dr. Imam on Thursday Feb 16.

**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)