Programming and Data Structures Laboratory - General Instructions

* A student should sit at the same PC in every laboratory class. You are required to remember your PC number.

* **Attendance is mandatory on all days**. There will be an assignment in every laboratory class. Any student missing a laboratory class will get zero marks for that day's assignment, unless one of the following scenarios applies:
(1) there is a medical emergency – the student needs to submit a certificate from B.C.Roy Hospital, showing that he/she was sick on the given day.
(2) there is some other genuine emergency – the student needs to submit a written application stating the reason for absence, forwarded by his/her Faculty Advisor.
If either of the two scenarios is applicable, then the student will be awarded average of the marks received in the earlier two assignments, for the assignment which he/she missed. In case two earlier assignments are not available, then later assignments will be considered.
If neither of the scenarios (1) or (2) applies, then the student will be awarded zero for the missed assignment. No extra days is permissible.

* Every day (except for Lab Test days), there can be two types of questions:
(1) **Tutorial questions** – these are for your practice. You should write these programs in a notebook. There is no need to write these programs on the machines.
(2) **Assignment questions** – these programs must be written on the machines, and uploaded to the submission website (e.g., Moodle) before the end of the laboratory class. You will be evaluated on these questions.

* Program for each question should be in a separate .c file

* There can be multiple questions in a particular assignment. If so, you should compress all .c files as a single .zip or .tar.gz file before submitting. The compressed file should be named as:
{ROLL_NUMBER}_{ASSIGNMENT_NUMBER}.{EXTENSION}

Example: If your roll number is 16CS60R00, then for the first assignment A1, your submission file should be named as **16CS60R00_A1.tar.gz** or **16CS60R00_A1.zip**

Assuming that the assignment A1 has three questions, the individual program files can be named as **16CS60R00_A1_1.c, 16CS60R00_A1_2.c, and 16CS60R00_A1_3.c**

* For the assignment given on a particular day, the compressed file containing the solutions to all questions should be submitted **before the end of the laboratory class on the same day. The deadline for submission will be set to 10 minutes before the scheduled end of the class.**
[Note: You can change your submission as many times as you want before the deadline expires.]

* Assignments are to be done individually. **Any sort of unfair means will be heavily penalized.** You should write the solutions yourself, without help from your neighboring students. If necessary, you can consult the TAs. However, note that you should try to become independent in writing the programs as the semester progresses.

* You should bring a copy of the theory class notes to the laboratory class as well, and refer to the notes if necessary. Also you can take the help of reading materials available on the Web. However, **copying programs from the Web is strictly not permissible**.

* On the Lab Test days, you cannot refer to any notes, nor access the Web. Also you cannot ask for help from TAs on the Lab Test days.

* You should **follow some good programming practices while writing programs**:
- You should use meaningful variable names, that give an idea of what value a variable stores (e.g., variable names like 'total', 'area', etc., and not just 'a', 'x', 'y').
- While taking user-input, you should display a prompt, e.g., "Enter the next value: ", or "Enter the length of side of the square: " (which will inform the user what value is to be entered).
- You should use proper indentation.
- You should document your code by writing meaningful comments.
Programs which do not follow the above practices are likely to be penalized while grading.