

Faculty of Engineering, University of Jaffna

Department of Computer Engineering

EC2010: Computer Programming

Lab 03

Lecturer: Dr, J. Jananie

Instructors:

1. First, create a C++ project and name it Lab03-RegNo, replacing the term RegNo with your University-issued RegNo.
2. Starting at the topmost line of the file, insert the following minimally required documentation, filling in your name, Reg_No, the assignment number, due date and a brief description of what the program will do. You must select one of the two forms of certification of Authenticity. Submissions not including a certification of authenticity will not be graded.

// Your Name

// Your RegNo

// EC2010

//Group: [Insert the number]

// Lab: [Insert the number]

// Program Description: [insert brief description here]

// Certificate of Authenticity: (choose one from below)

// I certify that the code in the method function main of this project

// is entirely my own work.

(or)

// I certify that the code in method function main of this project is

// entirely my own work, but I received assistance from [insert name/book/lectureslides].

// Follow this with a description of the type of assistance.

3. You need to submit the source codes and the PDF (Output screenshots only). Consider input validation for each question if needed.

1. Implement a C++ program for a user who wants to check his/her eligibility to get driver license. The interface collects the details such as first name, last name, age, learnerNo or 0 (If not finished written exam), and Aptitude Medical CertificateNo. After that, it checks for the following conditions.
 - a. Age must be greater than 17 then can register for written exam.
 - b. In the event of passing the written test, a learners' permit is issued.
 - c. If permit is given (learnerNo not None) can practice driving.
 - d. Age must be greater than 18 then can take for practical exam.

Then the program should display all user inputs and the eligibility as a driver (Person who has learnerNo and also, eligible to take practical exam is eligible as driver). Use appropriate printing statements for all the conditions.

2. Write a C++ program using switch case to check the eligibility of the student to go next level. The interface collects the details such as Name, Reg_No, subject name and the grade of the subject. After that, it checks for the following conditions.

- a. Grade= A,

Print, " Excellent, your grade is A."

Grade= B,

Print, " Well done, your grade is B."

Grade= C,

Print, " You passed, your grade is C."

Grade= D,

Print, " Better try again, your grade is D."

else

Print, "Invalid grade."

Then the program should display all user inputs and the eligibility of student.

3. Read 10 numbers from user and find the summation of positive numbers of them using,
 - a. For loop
 - b. while loop
 - c. do-while loop

Eg:

Enter 10 numbers: 2 5 3 8 7 4 3 8 9 4

Summation: 53

Create a zip file in a format of Lab3-Regno-Coursecode including all your code folders and pdf answer sheets.

Upload the zip file on/before given deadline via team.

Any plagiarized work will be given 0 marks