JIS College of Engineering

(An Autonomous Institute)

Department of Computer Science and Engineering

B. Tech. 2nd Year Odd semester 2021-2022

Programming with C++ lab	Lab Program Marks – 40
Code: CS393	Viva Marks – 20

Answer the question whose question number is equal to 0-th digit of your University Roll Number (i.e. rightmost digit in your Univ. Roll Number)

0) Write a Program in C++ to show multi-level inheritance where mode of inheritance is public. In the same program you need to show the use of multiple inheritances where mode of inheritance is private.
1) Write a program in C++ to implement stack & its operations (push, pop, display).
2) Write a Program in C++ to read and display information of 'n' number of students using dynamic memory allocation ('n' is user input). Use new and delete operators.
3) Write a Program in C++ to read and display information of employees using constructor (consider suitable members for the class of employees).
4) Write a program in C++ using template to implement Stack for generic data types.
5) Define one BOOK class with the following specifications and then store information of any 5 books. Consider array of objects.
   PRIVATE MEMBERS:
   BOOK_NO   integer type
   BOOK_TITLE   20 characters
   BOOK_Authors   50 characters

   PUBLIC :
   INPUT()   //read required inputs
   DISPLAY()   //display information of all books
6) Write a program in C++ using operator overloading to subtract two matrices.
7) Write a Program in C++ to swap data between two objects (of classes named as class_1, class_2, where every class has one integer member and one float member). Do not use friend function.
8) Write a Program in C++ in which you should create a class for rectangle and find out the area and perimeter of rectangle. Use default constructor and parameterized constructor.
9) Write one simple program in C++ to create Linked List by adding items at the end of linked list (i.e. define a function insert_at_end only).

Submit in LMS and through Google form.
Google form link: https://forms.gle/m9nejFXF1JtHZT3UA

Note: Write Name, Roll number, department, section in the answer paper