

Semester V & VI

Paper Code : BSIT-606

Nomenclature of paper : Programming In C++ (IT Lab IX)

Maximum Marks :50

Time : 3 Hrs

1. Program to study the behavior of data types i.e. their min. & max. values & their size.
2. Program that accepts a text from the keyboard and prints the no. of characters, vowels, words, lines.
3. program to determine whether the substring occurs within a string and other useful string operations
4. Program to implement a function to compare two arrays for equality. Be sure to define what it means for two arrays to be equal.
5. Program to add two integers of more than 25 digits length.
6. Program to implement bubble and insertion sort algorithms.
7. program to implement a recursive function for implementing quicksort algorithm.
8. program to implement a Stack Class and define push and pop operations clarify the public and private members.
9. Program to implement a Queue Class and define insert and delete methods and necessary exception handling routines.
10. Implement a point as a base Class which defines a pixel in graphics Coordinate system. Derive Line and Circle classes from Point Class and define suitable method to draw them and make them invisible on the screen.
11. Redefine Point Class defined previously to include virtual functions. Inherit line, Circle, Rectangle, Ellipse classes. Through the help of virtual functions draw these entities and remove them from the screen.
12. Define a Node class to implement a linked list. The node carries the information of non-zero elements of a two-dimensional matrix. Define add delete methods to insert and remove elements from the linked list.