APPRENTICESHIP

SET 51 – C++ Programming Language

(Operator Over loading and public Inheritance)

1. Write a program to illustrate the overloading of ( ) (function call) operator.

2. Write a program to illustrate the overloading of -> (this pointer) operator.

3. Write a program to illustrate the overloading of **new** and **delete** operator.

4. WAP to find biggest of two numbers where one number is inherited from super class with its data members.

5. WAP to find average of 3 numbers where all the three numbers are derived from different class in multilevel inheritance using different input Function (Do not Overload the Functions).

6. WAP to find biggest of three numbers through the Multi- level Inheritance.

7. WAP to find area of circle and circumference of circle using hierarchical inheritance.

8. Write a program to inherit two points in multiple manner into a third class called Distance to get the distance between the two points in the same class member function and print the results.

9. Write a program to inherit a class called Center which represents the center of Circle by three classes called Point1, Point2 and Point3. Check which point is lies on the Circumference of the circle or not.

10. Write a program to create 5 classes which contains one data member and one member function to get the data. Inherit all classes in multilevel manner into a 5th class and create an array for these data members in function of 5th class. Then pass this array to a function of the class called **Sort** to sort the array in descending order. And print the resulted array in the 5th Class only.

Assignments

11. Write a program to illustrate the overloading of ~ operator to get the transpose of a matrix of size 3X3.

12. Write a program to find the product of two Matrices of size 2 X 2 by overloading * operator.
13. WAP to find the whether the two co-ordinates of a point belongs to 1st Quadrant of a Cartesian coordinate system or not by simple Inheritance.

*****