Lab-7 Destructors and Inheritance

- 1. write a program in c++ to create a class Test having data members length and name as data members. Using default and dynamic constructors to allot memory for name dynamically. Use destructor to deallocate memory to name using delete. Create an object dynamically using new and also delete the objects memory using delete.
- 2. Create a class student which stores name, roll number and age of a student. Derive a class test from student class, which stores marks in 5 subjects. Input and display the details of a student.
- 3. Extend the program 2. to derive a class from result from class 'test' which includes member function to calculate total marks and percentage of a student. Input the data for a student and display its total marks and percentage.
- 4.Create a class 'shape'. Derive three classes from it: Circle, Triangle and Rectangle.Include the relevant data members and functions in all the classes. Find the area of each shape and display it.
- 5. Create a class which stores employee name,id and salary Derive two classes from 'Employee' class: 'Regular' and 'Part-Time'. The 'Regular' class stores DA, HRA and basic salary. The 'Part-Time' class stores the number of hours and pay per hour. Calculate the salary of a regular employee and a par-time employee.