**Assignment -5**

1. Multiple inheritance :

Student->Marks->results

Define the classes according to the hierarchy in the figure.

Class student stores the name and roll no. of a student. Class marks stores the marks of a student in three subjects. Class result stores the total marks and percentage of a student. Take the input for 10 students. Find the percentage & display. Include all the constructors.

1. Student (name,rollno)

Marks(m1,m2,m3) Sports(gre) Results(total,percentage)

Modify the program 1 to include class sports which stores the sport marks of a student. WAP to calculate total &

percentage.

total = m1+m2+m3+grade.

1. Shape (area)

Circle rectangle triangle (radius) (length ,breadth) (base, height)

Create the classes as given in the figure. Find the area of a circle, a rectangle and a triangle.

4.WAP to demonstrate the order of call of constructors and destructors in case of multiple inheritance.

5.WAP to demonstrate the order of call of constructors and destructors in case of multi-level inheritance.