## Lab program 4

4) Develop a Java program to ereate an abstray class named snape that contains two integral and an empty method named printAriaco Brovide three classes named Rectangle Triangle and circle such that each one of the classes extends the chars shape. import java. util. \*) abstract class Shape & unt al, d2; Scanner input = new Scanner (System in); alstract void printArea ()') las Rectangle extends Shape S. 3 () surathing bior System out print ("Enter length and breadth of rectangle: "); al = input next Int(); d2 = input. next Int(1; System. out. printly ("The area of Rectangle us: "d1\*d2 + "(n")", class Triangle extends Shape &

> yold print Aua () & Void print Area () &

System. out. print ("Enter Base and hight of triangle : "); d1° = input mxt Int(); d2 = input. nextInt(); System out pointly ("The are of Triangless" + (d1 \*d2)/2+4 \n4); Mass Circle extends Shape & 3 () sustining bior System. out. printle "Enter Radius!"), d 1= input. next Int ()', System. out. println ("The area of circle is + 3.14 + \*d1 \*d1+"/nu), public class shapemains public static void main (String [] args) & Rectangle uc = new Rectangle (); ouc. puint Area (); Triangle tri = new Triangle (); tri, print Ana (), Circle with= new circle cir- printAria (),

Enter length and breadth of intangle: 10
The area of Rectangle is: 200

Enter Base and Height of triangle: 5
The area of Triangle is: 25

Enter Radius: 3 The area of livele is: 28.26.