LAB -4

```
import java.util.*;
abstract class Shape
{
   int a;
   int b;
  abstract void printArea();
}
 class Rectangle extends Shape
 {
    Rectangle(int x, int y)
    {
        a=x;
        b=y;
    }
  void printArea()
 {
   System.out.println("Area is "+(a*b));
 }
 }
 class Triangle extends Shape
 {
     Triangle (int x, int y)
     {
         a=x;
         b=y;
     }
  void printArea()
{ System.out.println("Area is "+a*b*0.5)); }
```

```
}
class Circle extends Shape
{
    Circle (int x)
    {
        a = x
    }
    void printArea ()
    { System.out.println("Area is " + a*a* 3.14));
    }
}
class dabtest1
{
  public static void main (String ss[])
  {
     int d, b, ba, h, ra ;
     Scanner sc = new Scanner (System.in);
  System.out.println ("Enter the lenght and breadth of
  rectangle ");
          l = sc.nextInt ();
          b = sc.nextInt();
        Rectangle r = new Rectangle (d, b);
         r.printArea ();
```

```
System.out.println("enter the base and height of triangle");
ba = sc.nextInt();
ha = sc.nextInt();
Triangle t = new Triangle(ba,ha);
t.printArea();
System.out.println("enter the radius of circle");
ra = sc.nextInt()
Circle c = new Circle(ra);
c.printArea();
}
}
```