**JAVA LAB EXPERIMENT NO: 11**

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**CLASS: SE9**

**BATCH: C**

**ROLL NO: 38**

**PROGRAM:**

import java.util.\*;

class abc

{

void main()

{

Circle c=new Circle();

Rectangle r=new Rectangle();

Triangle t=new Triangle();

c.area();r.area();t.area();

}

}

abstract class shape

{

final float pi=3.14f;

abstract public void area();

}

class Circle extends shape

{

public void area()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter radius: ");

float r=sc.nextFloat();

float a=pi\*r\*r;

System.out.println("Area of Cirlce= "+a);

}

}

class Rectangle extends shape

{

public void area()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter lenght and width: ");

float l=sc.nextFloat();

float w=sc.nextFloat();

float a=l\*w;

System.out.println("Area of Rectangle= "+a);

}

}

class Triangle extends shape

{

public void area()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter lenght and width: ");

float l=sc.nextFloat();

float w=sc.nextFloat();

float a=l\*w\*0.5f;

System.out.println("Area of Triangle= "+a);

}

}

**OUTPUT:**

