import java.util.Scanner;

abstract class Shape

{

double val1,val2;

abstract void compute\_area();

public void get\_data()

{

Scanner sc=new Scanner(System.in);

System.out.println("\nEnter the first value :");

val1=sc.nextDouble();

System.out.println("Enter the second value :");

val2=sc.nextDouble();

}

}

class Rectangle extends Shape

{

void compute\_area()

{

double area=(val1)\*(val2);

System.out.println("Area of the Rectangle is : "+area);

}

}

class Triangle extends Shape

{

void compute\_area()

{

double area=0.5\*(val1)\*(val2);

System.out.println("Area of the Triangle is : "+area);

}

}

class Circle extends Shape

{

double radius;

public void get\_data()

{

Scanner sc=new Scanner(System.in);

System.out.println("\nEnter the radius value :");

radius=sc.nextDouble();

}

void compute\_area()

{

double area=3.14\*(radius)\*(radius);

System.out.println("Area of the Circle is : "+area);

}

}

public class Main

{

public static void main(String[] args)

{

Rectangle obj1=new Rectangle();

obj1.get\_data();

obj1.compute\_area();

Triangle obj2=new Triangle();

obj2.get\_data();

obj2.compute\_area();

Circle obj3=new Circle();

obj3.get\_data();

obj3.compute\_area();

}

}

//OUTPUT :

Enter the first value :

5

Enter the second value :

3

Area of the Rectangle is : 15.0

Enter the first value :

12

Enter the second value :

4

Area of the Triangle is : 24.0

Enter the radius value :

6

Area of the Circle is : 113.03999999999999