import java.util.Scanner;

abstract class Shape

{

int a1,a2;

Scanner sc = new Scanner(System.in);

abstract void printArea();

}

class Rectangle extends Shape

{

void printArea()

{

System.out.println("Enter length and breadth of Rectangle: ");

a1 = sc.nextInt();

a2 = sc.nextInt();

System.out.println("The area of Rectangle is: "+a1\*a2);

}

}

class Triangle extends Shape

{

void printArea()

{

System.out.println("Enter base and height of Triangle: ");

a1 = sc.nextInt();

a2= sc.nextInt();

System.out.println("The area of Triangle is: "+(a1\*a2)/2f);

}

}

class Circle extends Shape

{

void printArea()

{

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

a1 = sc.nextInt();

System.out.println("The area of Circle is: " +a1\*a1\*3.14f);

}

}

class MainShape

{

public static void main(String args[])

{

Rectangle r = new Rectangle();

r.printArea();

Triangle t = new Triangle();

t.printArea();

Circle c = new Circle();

c.printArea();

}

}

