import java.util.\*;

abstract class shape

{

int a,b;

abstract public void printarea();

}

class rectangle extends shape

{

public int area\_rect;

public void printarea()

{ Scanner s=new Scanner(System.in);

System.out.println("enter the length and breadth of rectangle");

a=s.nextInt();

b=s.nextInt();

area\_rect=a\*b;

System.out.println("Length of rectangle "+a +"breadth of rectangle "+b);

System.out.println("The area of rectangle is:"+area\_rect);

} }

class triangle extends shape

{ double area\_tri;

public void printarea()

{

Scanner s=new Scanner(System.in);

System.out.println("enter the base and height of triangle");

a=s.nextInt();

b=s.nextInt();

System.out.println("Base of triangle "+a +"height of triangle "+b);

area\_tri=(0.5\*a\*b);

System.out.println("The area of triangle is:"+area\_tri);

}}

class circle extends shape

{

double area\_circle;

public void printarea()

{

Scanner s=new Scanner(System.in);

System.out.println("enter the radius of circle");

a=s.nextInt();

area\_circle=(3.14\*a\*a);

System.out.println("Radius of circle"+a);

System.out.println("The area of circle is:"+area\_circle);

}}

public class shapeclass

{

public static void main(String[] args)

{

rectangle r=new rectangle();

r.printarea();

triangle t=new triangle();

t.printarea();

circle r1=new circle();

r1.printarea();

}}



