import java.util.Scanner;

abstract class Shape{

int b,h;

Shape(int b, int h){

this.b = b;

this.h = h;

}

abstract void printArea();

}

class Rectangle extends Shape{

Rectangle(int b,int h){

super(b,h);

}

void printArea(){

System.out.println("area of the rectangle is:"+(b\*h));

}

}

class Triangle extends Shape{

Triangle(int b,int h){

super(b,h);

}

void printArea(){

System.out.println("area of the triangle is :" +((b\*h)/2));

}

}

class Circle extends Shape{

Circle(int r){

super(r,0);

}

void printArea(){

System.out.println("area of the circle is :"+(3.14\*b\*b));

}

}

class Shapemain{

public static void main(String args[]){

Rectangle R = new Rectangle(10,20);

R.printArea();

Triangle T = new Triangle(10,20);

T.printArea();

Circle C = new Circle(10);

C.printArea();

}

}

OUTPUT :

