```
import java.util.Scanner;
abstract class Shape {
    int dimension1;
    int dimension2:
    abstract void printArea();
class Rectangle extends Shape {
 public Rectangle(int length, int width) {
        this.dimension1 = length;
        this.dimension2 = width:
    void printArea() {
    int area = dimension1 * dimension2;
    System.out.println("Rectangle Area: " + area);
class Triangle extends Shape {
 public Triangle(int base, int height) {
        this.dimension1 = base;
        this.dimension2 = height;
    void printArea() {
        double area = 0.5 * dimension1 * dimension2;
        System.out.println("Triangle Area: " + area);
    }
class Circle extends Shape {
    private final double pi = 3.14159;
    public Circle(int radius) {
    this.dimension1 = radius;
    this.dimension2 = 0:
    void printArea() {
    double area = pi * dimension1 * dimension1;
    System.out.println("Circle Area: " + area);
}
```

```
public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter length of rectangle: ");
        int length = scanner.nextInt();
        System.out.print("Enter width of rectangle: ");
        int width = scanner.nextInt();
        Rectangle rectangle = new Rectangle(length, width);
        rectangle.printArea();
        System.out.print("Enter base of triangle: ");
        int base = scanner.nextInt();
        System.out.print("Enter height of triangle: ");
        int height = scanner.nextInt();
        Triangle triangle = new Triangle(base, height);
        triangle.printArea();
        System.out.print("Enter radius of circle: ");
        int radius = scanner.nextInt();
        Circle circle = new Circle(radius);
        circle.printArea();
        scanner.close();
    }
```

```
(c) Microsoft Corporation. All rights reserved.
C:\Users\ADMIN>D:
D:\>cd Srushti.BMS
D:\Srushti.BMS>javac main.java
D:\Srushti.BMS>java Main
Enter length of rectangle: 3
Enter width of rectangle: 2
Rectangle Area: 6
Enter base of triangle: 6
Enter height of triangle: 5
Triangle Area: 15.0
Enter radius of circle: 2
Circle Area: 12.56636
D:\Srushti.BMS>s_
```

Microsoft Windows [Version 10.0.19045.3570]

	व्याग्वीय	PAGE NO: DATE:
		class concle extends themproposed dal
1:		enant tour let be a lough glowing
ooks: ").		emport java util diannois in sidog
		abeliand store all and the
		abstract class shape & self
		int demension 1;
		int demension o; stimousa
		10 SURABORRY DON
	1.1003501	abstract void print Areas);
	1- COND	1 3- as refiglise (1) altagrap too casterts
		Class Rectangle extends shape &
0		public Rectangle (int length, ent width) {
fa:15:");		this. dimension he length; side
	(0)	this dimension a widthing
	1 (6) 0	Stanner Stanner - new Stanner Bystu
		@ Overnide
6	1.(4.910)	dustant yord port Area of Cong tue motant
0	-	ent area = demension + dimension 2;
6	1000	Jystem. out: printin ("Rectangle Area: "+area);
		9 CHOTEXSO NO ORONG SHEDGED PAR
19	1860 18	Redunale medanale - new Redunale (1600
		class Trangle extends shape {
4		Public in: angle (int base, int height) (
1	· [ major	thes: dimension has base in the
1		thes. dimensions - height;
4	"C'elono	on 3 to tapend to hat a mitarrely too constant
		Quonide van semon lapsad las
	Veneral	void print Anea() ( in some
0	Jan Vinne	double area =10.5 * d. mension   * d. mens.ons;
		System. out prentine "Traiangle Area:"+ area);
4	1.1.1	of some used to take the med the
		1 cital basa coname subox his
		Coule coule : area Coule (madius)
The Party of the Control of the Cont		LEWIS SDEED (NEW SIDE) SHEET

class circle extends shaped private fenal double pi = 3.14159; public Cincle (PA) Had: US) ( this dimension = nadius; this. dimension & = 0; hardedo Odvornide void printaneous double Area : p: + dimension + dimension System. out. printin ("(: Hile Area: ")+ area); old cheers donehold and Dow too stone (10) some by solding Public class Main & Pablic static upid main (String (Jargs)
Stanner Scanner = new Blanner (dystem.in); System. out. print (" Enton length of nectangle:"); int length = Scanner nextInti); System but print ("Enter width of nectangle:"); int width = scanner next Total; Rectangle rectangle = new Rectangle (length, width), rectangle : prent Ameair; System out print ("Fotor base of traingle:"); int base = 5anner next Intc); System. out. prientin ("Enter height of traingle:"); ent height = scanner nextints; Tripiangle Iniangle = new Triangle (base, height); consent friend: sprint Areaco; System. out print ("Enter radius of concle:"); in radius = Scannon next Intis; (incle cincle = new linde (nadius);

