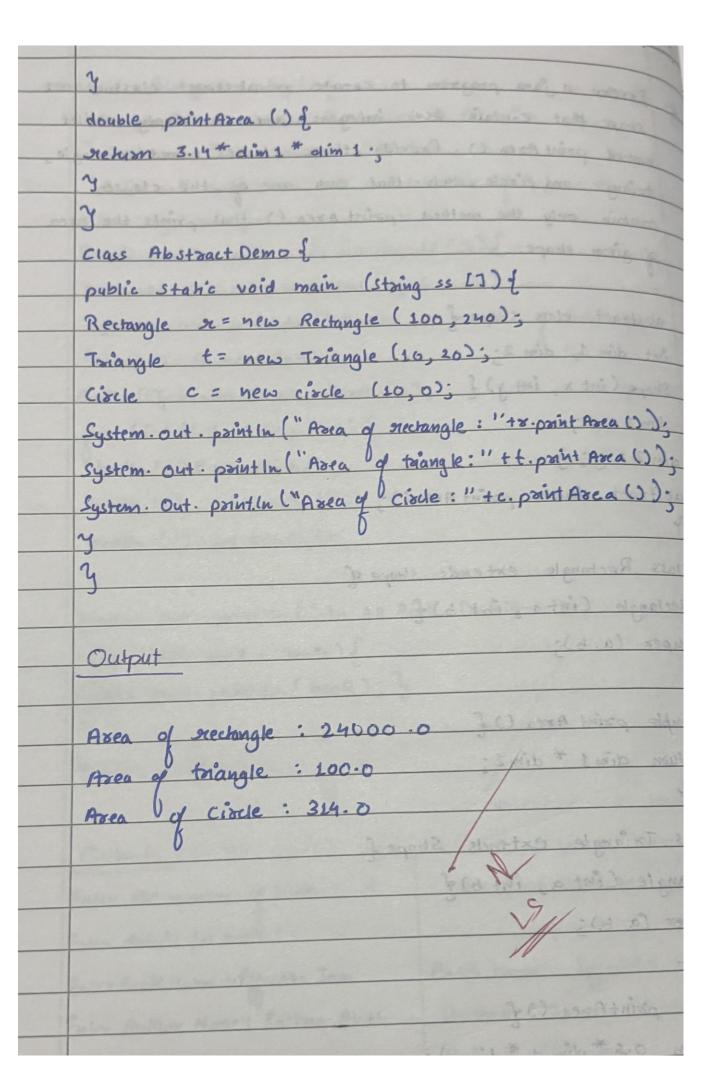
LAB 04

Develop a Java program to create an abstract class named Shape that contains two integers and an empty method named printArea(). Provide three classes named Rectangle, Triangle and Circle such that each one of the classes extends the class Shape. Each one of the classes contain only the method printArea() that prints the area of the given shape.

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30	Develop a sura ozonom !	
	Develop a juva program to create an abstract	t class named
	shape that contains two integers and an named print free (). Provide	empty method
	named print Area (). Provide three classes in	named rectangle
	triangle and circle such that each one of the contain only the method print area () that	ne classes
	of given shape.	prints the area
	of given shape.	C45 SH 20151
	abstract class shape of	NET COLOR
	int dim 1, dim 2.	
	Shape (int x, int y) & com	
	dim 1 = 2 -	
	din 2 = y y	
	abstract double print Area ();	an total court par
		34
	Class Rectangle extends shape of	
	Rectangle (int a sint b) {	3 1 10
	super (a, b);	The state of the s
	3	
	double print tire of	Axen of section
	neturn dim 1 * dim 2;	
	133	Area Of civil
	class Triangle extends Shape f	
	Triangle (int a, int b) é	
	super (a, b);	
	1 Supes 14)	1
		N. Comments
	double printAxea () {	
	rekon 0.5 * dim 1 * dim 2;	/
	7	
	3	
	Class circle extends shape of	
	circle (int a, int b) {	
	Circle (Ma	
	super (a, a);	



```
abstract class Shape{
int dim1,dim2;
Shape(int x,int y){
dim1=x;
dim2=y;}
abstract double printArea();
}
class Rectangle extends Shape{
Rectangle(int a,int b){
super(a,b);
}
double printArea(){
return dim1*dim2;
}}
class Triangle extends Shape{
Triangle(int a,int b){
super(a,b);
}
double printArea(){
return 0.5*dim1*dim2;
}
class Circle extends Shape{
Circle (int a,int b){
super(a,0);
}
double printArea(){
return 3.14*dim1*dim1;
}
}
```

```
class AbstractDemo{
public static void main(String ss[]){
Rectangle r=new Rectangle(100,240);
Triangle t=new Triangle(10,20);
Circle c =new Circle(10,0);
System.out.println("Area of rectangle:"+r.printArea());
System.out.println("Area of triangle:"+t.printArea());
System.out.println("Area of circle:"+c.printArea());
}
```

```
D:\24BMSCE>javac AbstractDemo.java

D:\24BMSCE>java AbstractDemo
Area of rectangle:24000.0
Area of triangle:100.0
Area of circle:314.0

D:\24BMSCE>
```