

## WEEK-4

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

### CODE:

```
import java.util.*;

abstract class shape
{
    int x,y;
    abstract void area(double x,double y);
}

class Rectangle extends shape
{
    void area(double x,double y)
    {
        System.out.println("Area of rectangle is :"+(x*y));
    }
}

class Circle extends shape
{
    void area(double x,double y)
    {
        System.out.println("Area of circle is :"+(3.14*x*x));
    }
}
```

```
class Triangle extends shape
{
void area(double x,double y)
{
System.out.println("Area of triangle is :"+(0.5*x*y));
}
}

public class abstactvaishnavi
{
public static void main(String[] args)
{
Rectangle r=new Rectangle();
r.area(2,5);
Circle c=new Circle();
c.area(5,5);
Triangle t=new Triangle();
t.area(2,5);
}
}
```

## OUTPUT:

```
C:\Users\Admin\Desktop\1bm21cs234>cd C:\Users\Admin\Desktop\New folder (2)

C:\Users\Admin\Desktop\New folder (2)>set path="C:\Program Files\Java\jdk-19\bin"

C:\Users\Admin\Desktop\New folder (2)>javac abstactvaishnavi.java

C:\Users\Admin\Desktop\New folder (2)>java abstactvaishnavi
Area of rectangle is :10.0
Area of circle is :78.5
Area of triangle is :5.0

C:\Users\Admin\Desktop\New folder (2)>
```