## OOJ LAB 4

## USN:1BM21CS231

```
import java.util.*;
abstract class Shape
{
 abstract void PrintArea();
}
class Rectangle extends Shape
{
 double length, breadth;
 Rectangle(double l,double b)
 {
  length=l;
  breadth=b;
 }
 void PrintArea()
 {
  System.out.println("The Area of the rectangle is: "+(length*breadth));
}
```

```
class Triangle extends Shape
{
 double base, height;
 Triangle(double b,double h)
  base=b;
  height=h;
 }
 void PrintArea()
  System.out.println("The Area of the triangle is: "+(0.5*base*height));
}
}
class Circle extends Shape
{
 double radius;
 Circle(double r)
  radius=r;
 }
```

```
void PrintArea()
  System.out.println("The Area of the circle is:
"+((Math.PI)*(Math.pow(radius,2))));
}
}
public class MyShape
 public static void main(String [] args)
  Scanner sc = new Scanner(System.in);
  Rectangle rect = new Rectangle(23.4,54.9);
  Triangle tri = new Triangle(56.7,62.84);
  Circle cir = new Circle(50.0);
  rect.PrintArea();
  tri.PrintArea();
  cir.PrintArea();
}
}
```

## Command Prompt