package com.mycompany.shapeobj;

abstract class Shape

{

abstract double calculateArea();

public void display()

{

System.out.println("Shape: ");

}

}

public class Circle extends Shape

{

private double radius;

public Circle(double r)

{

radius=r;

}

@Override

double calculateArea()

{

return 3.1459f\*radius\*radius;

}

}

public class Rectangle extends Shape

{

private double length,width;

public Rectangle(double l,double w)

{

length=l;

width=w;

}

@Override

double calculateArea()

{

return length\*width;

}

}

public class ShapeObj

{

public static void main(String[] args)

{

Circle c1=new Circle(10);

c1.calculateArea();

Rectangle r1=new Rectangle(10,5);

r1.calculateArea();

System.out.println("Area of circle is "+c1.calculateArea());

System.out.println("Area of rectangle is "+r1.calculateArea());

}

}