

```
abstract class Shape
{
    public abstract double calculateArea();
}
class Circle extends Shape
{
    private double radius;
    public Circle(double radius)
    {
        this.radius=radius;
    }
    @Override
    public double calculateArea()
    {
        return 3.14*radius*radius;
    }
}
class Rectangle extends Shape
{
    private double length,width;
    public Rectangle(double length,double width)
    {
        this.length=length;
        this.width=width;
    }
    @Override
    public double calculateArea()
    {
        return length*width;
    }
}
class Square extends Shape
{
    private double side;
    public Square(double side)
    {
        this.side=side;
    }
    @Override
    public double calculateArea()
    {
        return side*side;
    }
}
```

```
}  
public class Inheritance  
{  
    public static void main(String[]args)  
    {  
        Shape circle=new Circle(2);  
        Shape rectangle=new Rectangle(4,6);  
        Shape square=new Square(4);  
        System.out.println("Circle Area:"+circle.calculateArea());  
        System.out.println("Rectangle Area:"+rectangle.calculateArea());  
        System.out.println("Squaer Area:"+square.calculateArea());  
    }  
}
```

