```
package JavaFinalProject;
public class Shape {
    public void displayArea()
        System.out.println("The shape is not having
any area calculation method");
}
package JavaFinalProject;
public class Square extends Shape{
    int length;
    public Square(int length )
        // using the below code, we are <u>initialzing</u>
the arguments of the constructor
        this.length = length;
    }
    public double calculateArea()
    {
        return length*length;
    }
    public void displayArea()
    {
        System.out.println( "the area of square is:"
+ calculateArea());
}
_____
package JavaFinalProject;
```

```
public class Rectangle extends Shape{
    int length;
    int width;
    public Rectangle(int length, int width )
        // using the below code, we are initialzing
the arguments of the constructor
        this.length = length;
        this.width = width;
    }
    public double calculateArea()
        return length*width;
    public void displayArea()
        System.out.println( "the area of rectangle
is:" + calculateArea());
    }
==========
package JavaFinalProject;
import java.util.ArrayList;
public class PrintShapes {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        ArrayList<Shape> sh = new ArrayList<>();
        try {
        sh.add(new Rectangle(4,6));
        sh.add(new Square(-1));
        for (Shape shape: sh)
```

```
{
      shape.displayArea();
}
catch(Exception e)
{
      e.printStackTrace();
}
finally {
      System.out.println("program executed
Successfully");
}
}
```