

## Circle.java

```
1 import java.awt.Color;
5
6 public class Circle extends Oval
7 {
8     private int radius; //rad. of circle
9
10    //circle constructor
11    public Circle(int x, int y, Color color, int radius) {
12        super();
13        this.radius = radius;
14        setX(x);
15        setY(y);
16        setColor(color);
17    }
18
19    //getters
20    public int getRadius() {
21        return this.radius;
22    }
23
24    @Override
25    //returns the area of circle
26    public double getArea()
27    {return Math.PI * radius * radius;}
28
29    @Override
30    //returns the perimeter of circle
31    public double getPerimeter()
32    {return 2 * Math.PI * radius;}
33
34
35    public String toString()
36    {    String result = "Circle[ Radius=" + getRadius()+
37    ", Perimeter=" + getPerimeter()+ ", Area = " + getArea()+ "];"
38    return result;
39    }
40
41    @Override
42    public void draw(Graphics g)
43    {
44        g.setColor(getColor());
```

## Circle.java

```
45         g.fillOval( getX()-getRadius(), getY()-getRadius() ,getRadius() *  
46           2, getRadius() * 2);  
47     }  
48  
49 }
```