

```
1 package Exercise4;
2
3 public class Circle extends Shape {
4     private double radius;
5
6     public Circle(double radius) {
7         this.radius = radius;
8     }
9
10    @Override
11    public double area() {
12        return Math.PI * radius * radius;
13    }
14
15    @Override
16    public double perimeter() {
17        return 2 * Math.PI * radius;
18    }
19
20    public String toString() {
21        return String.format("도형의 종류 : 원, 둘레 : %.15fcm, 넓이 : %.15fcm^2", perimeter(), area());
22    }
23 }
24
```