

```
1 package lab05;
2
3 public class CircleDemo {
4
5     public static void main(String[] args) {
6
7         Circle c1 = new Circle();
8         System.out.println(c1.toString("c1"));
9         c1.setRadius(5);
10        c1.setArea(Math.pow(c1.getRadius(),2)*Circle.getPI());
11        System.out.println(c1.toString("c1"));
12
13        Circle c2 = new Circle();
14        System.out.println(c2.toString("c2"));
15        c2.initObject();
16        System.out.println(c2.toString("c2"));
17
18        Circle c3 = new Circle();
19        System.out.println(c3.toString("c3"));
20        c3.readRadius();
21        c3.setArea(Circle.getPI() * c3.getRadius() * c3.getRadius());
22        c3.setCircumference(Circle.getPI() * 2 * c3.getRadius());
23        c3.setDiameter(2*c3.getRadius());
24        System.out.println(c3.toString("c3"));
25
26        Circle c4 = new Circle();
27        System.out.println(c4.toString("c4"));
28        c4.setRadius(156.13);
29        c4.calculateArea();
30        c4.calculateCircumference();
31        c4.setDiameter(2*c4.getRadius());
32        System.out.println(c4.toString("c4"));
33
34        Circle c5 = new Circle();
35        System.out.println(c5.toString("c5"));
36        c5.setArea(200);
37        System.out.println(c5.toString("c5"));
38
39        Circle c6 = new Circle(100);
40        System.out.println(c6.toString("c6"));
41
42        Circle c7 = new Circle(125, 1023);
43        System.out.println(c7.toString("c7"));
44    }
45 }
46
```