Class Driver06

```
import java.io.*;
2
     * Driver for Lab06. Test constructors and methods of Circle, Rectangle,
3
     * Square, and Triangle classes and prints results in an output data
     * file.
5
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10
     * @version
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11
12
   public class Driver06
13
14
       public static void main(String[] args) throws Exception
15
16
            System.setOut(new PrintStream(new FileOutputStream(
17
                "output.txt")));
18
19
            //create the objects
20
            Circle c = new Circle(75);
21
            Rectangle r = new Rectangle(30.0, 40.);
22
            Square s = new Square(50.0);
23
            Triangle t = new Triangle(37);
24
25
            //test the instance methods
26
            System.out.println("Circle");
27
            System.out.println("----");
            System.out.println("Radius: " + c.getRadius());
29
            System.out.println("Area: " + c.findArea());
30
            System.out.println("Circumference: " + c.findCircumference());
31
32
            System.out.println();
33
            System.out.println("Rectangle");
34
            System.out.println("----");
35
            System.out.println("Base: " + r.getBase());
36
37
            System.out.println("Height: " + r.getHeight());
            System.out.println("Area: " + r.findArea());
38
            System.out.println("Perimeter: " + r.findPerimeter());
            System.out.println("Diagonal: " + r.findDiagonal());
40
41
            System.out.println();
42
            System.out.println("Square");
43
            System.out.println("----");
44
            System.out.println("Side Length: " + s.getSide());
45
46
            System.out.println("Area: " + s.findArea());
            System.out.println("Perimeter: " + s.findPerimeter());
47
            System.out.println("Diagonal: " + s.findDiagonal());
48
            s.setSide(10.0);
49
```

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            System.out.println("New side: " + s.getSide());
50
            System.out.println("New area: " + s.findArea());
51
            System.out.println();
52
            System.out.println("Triangle");
54
            System.out.println("----");
            System.out.println("Side Length: " + t.getSide());
56
            System.out.println("Area: " + t.findArea());
57
            System.out.println("Perimeter: " + t.findPerimeter());
58
            t.setSide(10.0);
59
            System.out.println("New side: " + t.getSide());
60
61
            System.out.println("New area: " + t.findArea());
            System.out.println();
62
63
65
```