

```
1 package lab09;
2
3 public class Triangle extends Figure{
4
5     private double a,b,c;
6
7     public Triangle() {
8         super();
9         a = b = c = 0;
10        System.out.println("Triangle: zero param");
11    }
12
13    public Triangle(double a, double b, double c) {
14        super();
15        this.a = a;
16        this.b = b;
17        this.c = c;
18        System.out.println("Triangle: three param.");
19    }
20
21    public Triangle(double a, double b, double c, String color) {
22        super(color);
23        this.a = a;
24        this.b = b;
25        this.c = c;
26        System.out.println("Triangle: four param.");
27    }
28
29    @Override
30    public String toString(String obj) {
31        return "Triangle "+obj+" [a=" + a + ", b=" + b + ", c=" + c + ", getPerimiter()=" + getPerimiter() + ", getArea
32        ()=" + getArea() + ", getColor()=" + getColor() + ", isFilled()=" + isFilled() + ", getDateCreated()="
33        + getDateCreated() + "]\n";
34    }
35
36    @Override
37    public double getPerimiter() {
38        return a + b + c;
39    }
40
41    @Override
42    public double getArea() {
43        return 0.25 * Math.sqrt( (a + b + c) * (-a + b + c) * (a - b + c) * (a + b - c) );
44    }
45
46
47
48
49
50 }
51
```