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# Lab 11 - Task 1 - Abstract Class

Problem

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Status: **Accepted**

Test Case #0



Test Case #1

## Submitted Code

Language: Java 8

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```
1 import java.util.Scanner;
2
3 abstract class Shapee {
4     private String name;
5
6     Shapee(){
7
8     }
9
10    public Shapee(String name) {
11        this.name = name;
12    }
13
14    public String getName() {
15        return name;
16    }
17
18    public void setName(String name) {
19        this.name = name;
20    }
21
22    public abstract double area();
23
24    public abstract double perimeter();
25 }
26
27 class Rectanglee extends Shapee {
28     private double length;
29     private double width;
30
31     Rectanglee() {
32
33     }
34
35     public Rectanglee(String name, double length, double width) {
36         super(name);
37         this.length = length;
38         this.width = width;
39     }
40 }
```

```
41     public double getLength() {
42         return length;
43     }
44
45     public double getWidth() {
46         return width;
47     }
48
49     public void setLength(double length) {
50         this.length = length;
51     }
52
53     public void setWidth(double width) {
54         this.width = width;
55     }
56
57     @Override
58     public double area() {
59         return length * width;
60     }
61
62     @Override
63     public double perimeter() {
64         return 2.0 * (length + width);
65     }
66 }
67
68
69 public class LAB11_Task1 {
70
71     public static void main(String[] args) {
72         Scanner input = new Scanner(System.in);
73
74         double l = input.nextDouble();
75         double w = input.nextDouble();
76
77         Rectangle obj = new Rectangle();
78         obj.setLength(l);
79         obj.setWidth(w);
80         System.out.println(obj.area());
81         System.out.println(obj.perimeter());
82
83     }
84
85 }
86
```