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# Lab 11 - Task 2 - Interface

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 public class LAB11_Task2 {
4
5     public static void main(String[] args) {
6         Scanner input = new Scanner(System.in);
7
8         double price = input.nextDouble();
9         double discount = input.nextDouble();
10
11         PercentageDiscount obj1 = new PercentageDiscount(discount);
12         ThresholdDiscount obj2 = new ThresholdDiscount(100, discount);
13
14         System.out.println(obj1.discountedPrice(price));
15         System.out.println(obj2.discountedPrice(price));
16
17     }
18 }
19
20
21 abstract class Discountable {
22     public abstract double discountedPrice(double price);
23 }
24
25 class PercentageDiscount extends Discountable {
26     private double percentage;
27
28     public PercentageDiscount() {
29
30     }
31
32     public PercentageDiscount(double percentage) {
33         this.percentage = percentage;
34     }
35
36     public double getPercentage() {
37         return percentage;
38     }
39
40     public void setPercentage(double percentage) {
```

```
41     this.percentage = percentage;
42 }
43
44 public double discountedPrice(double price) {
45     return price - price * (percentage / 100);
46 }
47
48 }
49
50 class ThresholdDiscount extends Discountable {
51     private double threshold;
52     private double discount;
53
54     public ThresholdDiscount() {
55     }
56
57     public ThresholdDiscount(double threshold, double discount) {
58         this.threshold = threshold;
59         this.discount = discount;
60     }
61
62     public double getThreshold() {
63         return threshold;
64     }
65
66     public double getDiscount() {
67         return discount;
68     }
69
70     public void setThreshold(double threshold) {
71         this.threshold = threshold;
72     }
73
74     public void setDiscount(double discount) {
75         this.discount = discount;
76     }
77
78     public double discountedPrice(double price) {
79         if(price > threshold) {
80             return price - (price*(10/100.0));
81         }else {
82             return price;
83         }
84     }
85 }
86 }
87
```