

No Border Productions(---RETIRED---)

Grade settings: Maximum grade: 100

Disable external file upload, paste and drop external content: Yes

Based on: [No Border Productions\(---RETIRED---\)](#)

Run: Yes **Evaluate:** Yes

Automatic grade: Yes

"No Border Productions" is a well-known computer showroom in the city. They wanted to calculate the amount that customers would have to pay based on the type of laptop. The manager of "No Border Productions" contacts a software developer for assistance with their process. You are the software developer, and you are creating a Java program based on the specifications.

Component Specification: Laptop

Type (Class)	Attributes	Methods
Laptop	String laptopId String brandName String laptopType String modelNumber	Necessary getters, setters, and a four-argument constructor is provided as a part of the code skeleton.

Functional Requirement 1: Extract the details of the laptop and create an object for Laptop class.

Type (Class)	Methods	Responsibilities
UserInterface	public static Laptop extractDetails (String laptopDetails)	This method accepts laptopDetails separated by the colon as an argument and extracts the properties of the Laptop from the argument. Set these values to the Laptop object and return this object.

Functional Requirement 2: Calculate the amount to be paid by the customer for the laptop.

Type (Class)	Methods	Responsibilities
Laptop	public double calculateLaptopPrice()	<p>This method is used to calculate the amount to be paid by the customer for the laptop.</p> <p>If the laptopType is Notebook, the cost is 45000.</p> <p>If the laptopType is Ultraportable, the cost is 52000.</p> <p>If the laptopType is Ultrabook the cost is 34000.</p> <p>If the laptopType is Chromebook, the cost is 43000.</p> <p>If the laptopType is MacBook, the cost is 55000.</p> <p>Condition:</p> <ul style="list-style-type: none"> • <i>laptopType</i> is case-insensitive. • If the <i>laptopType</i> doesn't match the any of the above-mentioned laptopType, the method should return -1. • If the <i>brandName</i> is not Lenovo return -1. • The <i>brandName</i> is case-insensitive.

The main method in the UserInterface class is excluded from the evaluation. You are free to write your own code in the main method to invoke the business methods to check its correctness.

Note:

- In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user and the rest of the text represents the output.
- Ensure to follow the object-oriented specifications provided in the question.
- Ensure to provide the names for classes, attributes, and methods as specified in the question.
- Adhere to the code template, if provided.

Sample Input / Output 1:

Enter Laptop Details

LAP456:Lenovo:Ultrabook:KJAS2802

Laptop Id : LAP456

Brand Name : Lenovo

Laptop Type : Ultrabook

Model Number : KJAS2802

Amount to be paid by the Customer : 34000.00

Sample Input / Output 2:

Enter Laptop Details

LAP6771:Lenovo:Touch:AJKS208

Invalid Laptop Details

Sample Input / Output 3:

Enter Laptop Details

LAP6771:HP:UltraBook:AJKS208

Invalid Laptop Details

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File List Save All Compile & Run Evaluate Reset Restore Description

File list
LaptopShowroom
src
Laptop.java
UserInterface.java

```
1 public class Laptop{
2
3
4     private String laptopId;
5     private String brandName;
6     private String laptopType;
7     private String modelNumber;
8
9     public Laptop() {
10         super();
11     }
12
13     public Laptop(String laptopId, String brandName, String laptopType, String modelNumber) {
14         super();
15         this.laptopId = laptopId;
16         this.brandName = brandName;
17         this.laptopType = laptopType;
18         this.modelNumber = modelNumber;
19     }
20
21     public String getLaptopId() {
22         return laptopId;
23     }
24
25     public void setLaptopId(String laptopId) {
26         this.laptopId = laptopId;
27     }
28
29     public String getBrandName() {
30         return brandName;
31     }
32
33     public void setBrandName(String brandName) {
34         this.brandName = brandName;
35     }
36
37     public String getLaptopType() {
```

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LaptopShowroom
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```
25     public void setLaptopId(String laptopId) {
26         this.laptopId = laptopId;
27     }
28
29     public String getBrandName() {
30         return brandName;
31     }
32
33     public void setBrandName(String brandName) {
34         this.brandName = brandName;
35     }
36
37     public String getLaptopType() {
38         return laptopType;
39     }
40
41     public void setLaptopType(String laptopType) {
42         this.laptopType = laptopType;
43     }
44
45     public String getModelNumber() {
46         return modelNumber;
47     }
48
49     public void setModelNumber(String modelNumber) {
50         this.modelNumber = modelNumber;
51     }
52
53     public double calculateLaptopPrice() {
54         // Fill the code
55         return 0;
56     }
57
58
59
60 }
61
```

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File List Save All Compile & Run Evaluate Reset Restore Description

File list

- LaptopShowroom
 - src
 - Laptop.java
 - UserInterface.java

```
1 import java.util.Scanner;
2
3 public class UserInterface {
4
5     public static Laptop extractDetails(String laptopDetails){
6         // Fill the code
7         return null;
8     }
9
10    public static void main(String[] args) {
11        Scanner scanner = new Scanner(System.in);
12        // Fill the code
13    }
14
15 }
16
```

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