

Lab-Assignment

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1)class name : Product

data members : prdid, prddescription, batchcode, price, profit;

method: addproduct() with args assign the values to datamembers and display to user

(with args and no return value)

calculate_profit() if price>=10000 and <=100000 profit is 10% on price

if price between 100000 to 500000 profit is 15% on price

if price is >500000 profit is 20% on price (with return type and no args)

```
package com.wrapperclass.examples;
```

```
public class productop {  
    private int prdid;  
    private String prddescription;  
    private String batchcode;  
    private double price;  
    private double profit;  
  
    public void addProduct(int prdid, String  
prddescription, String batchcode, double price) {  
        this.prdid = prdid;  
        this.prddescription = prddescription;  
        this.batchcode = batchcode;  
        this.price = price;  
        displayProduct();  
    }  
  
    public double calculateProfit() {  
        if (price >= 10000 && price <= 100000) {  
            return 0.10 * price;  
        } else if (price > 100000 && price <= 500000) {  
            return 0.15 * price;  
        }  
    }  
}
```

```

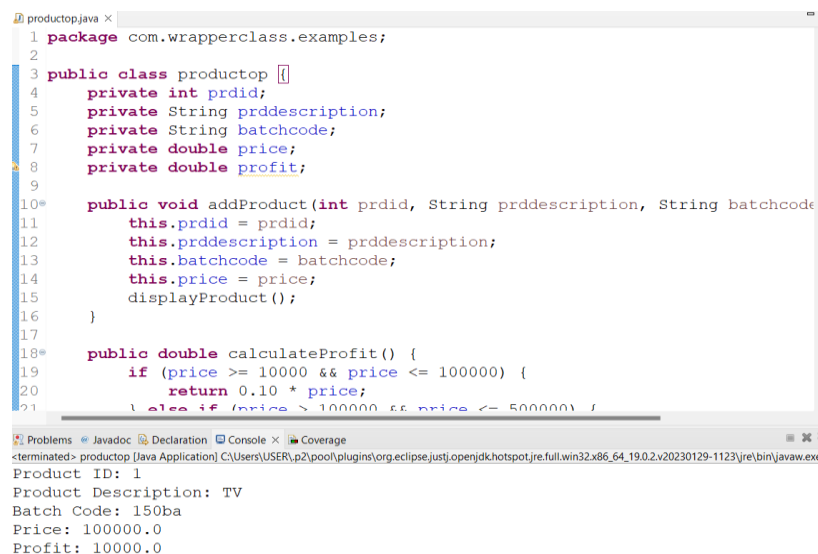
        } else if (price > 500000) {
            return 0.20 * price;
        }
        return 0.0;
    }

    public void displayProduct() {
        System.out.println("Product ID: " + prdid);
        System.out.println("Product Description: " +
prddescription);
        System.out.println("Batch Code: " + batchcode);
        System.out.println("Price: " + price);
        double calculatedProfit = calculateProfit();
        System.out.println("Profit: " +
calculatedProfit);
    }

    public static void main(String[] args)
    {
        productop product = new productop();
        product.addProduct(1, "TV", "150ba", 100000.0);
    }
}

```

Output:



The screenshot shows an IDE window titled 'productop.java'. The code is as follows:

```

1 package com.wrapperclass.examples;
2
3 public class productop {
4     private int prdid;
5     private String prddescription;
6     private String batchcode;
7     private double price;
8     private double profit;
9
10    public void addProduct(int prdid, String prddescription, String batchcode) {
11        this.prdid = prdid;
12        this.prddescription = prddescription;
13        this.batchcode = batchcode;
14        this.price = price;
15        displayProduct();
16    }
17
18    public double calculateProfit() {
19        if (price >= 10000 && price <= 100000) {
20            return 0.10 * price;
21        } else if (price > 100000 && price <= 500000) {

```

The console output at the bottom shows the execution results:

```

Product ID: 1
Product Description: TV
Batch Code: 150ba
Price: 100000.0
Profit: 10000.0

```