

```

import java.util.Scanner;
import javax.swing.*;

public class Main {
    public static void main(String[] args) {
        new EcommerceGUI();
        Scanner scanner = new Scanner(System.in);

        System.out.println("Welcome to the E-commerce system!");

        System.out.println("Please enter your id");
        int customerId = scanner.nextInt();
        scanner.nextLine();
        System.out.println("Please enter your name");
        String name = scanner.nextLine();
        System.out.println("Please enter your address");
        String address = scanner.nextLine();

        Customer customer = new Customer(customerId, name, address);

        ElectronicProduct electronicProduct = new ElectronicProduct(1, "smartphone", 599.9F, "Samsung", 1);
        ClothingProduct clothingProduct = new ClothingProduct(2, "T-shirt", 19.99F, "Medium", "Cotton");
        BookProduct bookProduct = new BookProduct(3, "00P", 39.99F, "O'Reilly", "X Publications");

        System.out.println("How many products you want to add to your cart?");
        int nProducts = scanner.nextInt();
        Cart cart = new Cart(customerId, nProducts);

        for (int i = 0; i < nProducts; i++) {
            System.out.println("Enter details for product " + (i + 1) + ":");
            System.out.println("1.smartphone ");

```

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```

31     System.out.println("Enter details for product " + (i + 1) + ":");
32     System.out.println("1.smartphone ");
33     System.out.println("2.T-shirt ");
34     System.out.println("3.OOP ");
35
36     int choice = scanner.nextInt();
37     scanner.nextLine();
38     switch (choice) {
39         case 1:
40             cart.addProduct(electronicProduct, i);
41             break;
42         case 2:
43             cart.addProduct(clothingProduct, i);
44             break;
45         case 3:
46             cart.addProduct(bookProduct, i);
47             break;
48         default:
49             System.out.println("Invalid choice. Product not added.");
50     }
51 }
52
53 double totalPrice = cart.calculatePrice();
54
55 System.out.println("Would you like to remove a product from your cart? 1- Yes 2-No ");
56 int o = scanner.nextInt();
57 if (o == 1) {
58     System.out.println("Enter the number of productId you want to remove");
59     int productId = scanner.nextInt();
60     Cart.removeProduct(productId);
61
62     System.out.println("product remove successfully");

```

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```
52 double totalPrice = cart.calculatePrice();
53
54
55 System.out.println("Would you like to remove a product from your cart? 1- Yes 2-No ");
56 int o = scanner.nextInt();
57 if (o == 1) {
58     System.out.println("Enter the number of productId you want to remove");
59     int productId = scanner.nextInt();
60     Cart.removeProduct(productId);
61
62     System.out.println("product remove successfully");
63 }else {
64     System.out.println("No products were remove");
65 }
66
67
68 System.out.println("Your total is $" + cart.calculatePrice() + ". Would you like to place the order? 1- Yes 2-No");
69 int option = scanner.nextInt();
70 if (option == 1) {
71     cart.placeOrder();
72     Order order = new Order(customerId, orderId: 1, cart.getProducts(), totalPrice);
73 }
74 Order.printOrderInfo();
75
76 }
```



```
1 import javax.swing.*;
2 import java.awt.*;
3 import java.awt.event.ActionEvent;
4 import java.awt.event.ActionListener;
5
6 1 usage
7 public class EcommerceGUI extends JFrame implements ActionListener {
8     3 usages
9     private JTextField idField, nameField, addressField, nProductsField;
10    4 usages
11    private JTextArea outputArea;
12    3 usages
13    private JButton submitButton;
14
15    1 usage
16    public EcommerceGUI() {
17        setTitle("E-commerce System");
18        setSize( width: 400, height: 300);
19        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
20
21        JPanel mainPanel = new JPanel();
22        mainPanel.setLayout(new GridLayout( rows: 6, cols: 2));
23
24        JLabel idLabel = new JLabel( text: "Customer ID:");
25        idField = new JTextField();
26        mainPanel.add(idLabel);
27        mainPanel.add(idField);
28
29        JLabel nameLabel = new JLabel( text: "Name:");
30        nameField = new JTextField();
31        mainPanel.add(nameLabel);
32        mainPanel.add(nameField);
33    }
```

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```
JLabel nameLabel = new JLabel(text "Name:");
nameField = new JTextField();
mainPanel.add(nameLabel);
mainPanel.add(nameField);

JLabel addressLabel = new JLabel(text "Address:");
addressField = new JTextField();
mainPanel.add(addressLabel);
mainPanel.add(addressField);

JLabel nProductsLabel = new JLabel(text "Number of Products:");
nProductsField = new JTextField();
mainPanel.add(nProductsLabel);
mainPanel.add(nProductsField);

submitButton = new JButton(text "Submit");
submitButton.addActionListener(this);
mainPanel.add(submitButton);

outputArea = new JTextArea();
outputArea.setEditable(false);
JScrollPane scrollPane = new JScrollPane(outputArea);

add(mainPanel, BorderLayout.NORTH);
add(scrollPane, BorderLayout.CENTER);

setVisible(true);
}
```

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© Main.java © EcommerceGUI.java © Product.java × © ElectronicProduct.java © ClothingProduct.java © BookProduct.java © Customer.java © Cart.java © Order.java

14 usages 3 Inheritors

```
1 public class Product {
2
3     3 usages
4     private int productId;
5     3 usages
6     private String name;
7     3 usages
8     private float price;
9     3 usages
10    public Product(){
11        3 usages
12        public Product(int productId,String name,float price){
13            this.productId=productId;
14            this.name=name;
15            this.price=price;
16        }
17
18        no usages
19        public int getProductId() {return productId;}
20
21        no usages
22        public void setProductId(int product) {
23            if (product>0)
24                product=productId;
25            else
26                Math.abs(product);
27        }
28
29        1 usage
30    public String getName() {return name;}
31}
```

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untitled -> src -> © Product -> @ getName

28-B CRLF UTF-8 4 sources

```
no usages
17 public void setProductId(int product) {
18     if (product>0)
19         product=productId;
20     else
21         Math.abs(product);
22 }
23
1 usage
24 > public String getName() { return name; }
27
no usages
28 > public void setName(String name) { this.name = name; }
31
2 usages
32 > public float getPrice() { return price; }
35

no usages
36 public void setPrice(float p) {
37     if (p>0)
38         p=price;
39     else
40         Math.abs(p);
41 }
42 }
43 }
44
```

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```

1  2 usages
2  public class ElectronicProduct extends Product{
3      3 usages
4      private String brand;
5      2 usages
6      private int warrantyPeriod;
7      no usages
8      public ElectronicProduct(){
9      1 usage
10     public ElectronicProduct(int productId,String name,float price,String brand,int warrantyPeriod){
11         super(productId,name,price);
12         this.brand=brand;
13         this.warrantyPeriod=warrantyPeriod;
14     }
15
16     no usages
17     public String getBrand() {
18         return brand;
19     }
20
21     no usages
22     public void setBrand(String brand) {
23         this.brand = brand;
24     }
25
26     no usages
27     public int getWarrantyPeriod() {
28         return warrantyPeriod;
29     }
30
31     no usages
32     public void setWarrantyPeriod(int warrantyPeriod) {

```

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```
no usages
4 public ElectronicProduct(){}
1 usage
5 public ElectronicProduct(int productId,String name,float price,String brand,int warrantyPeriod){
6     super(productId,name,price);
7     this.brand=brand;
8     this.warrantyPeriod=warrantyPeriod;
9 }
10
no usages
11 public String getBrand() {
12     return brand;
13 }
14
no usages
15 public void setBrand(String brand) {
16     this.brand = brand;
17 }
18
no usages
19 public int getWarrantyPeriod() {
20     return warrantyPeriod;
21 }
22
no usages
23 public void setWarrantyPeriod(int warrantyPeriod) {
24     Math.abs(warrantyPeriod);
25 }
26 }
27
```

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© Main.java © EcommerceGUI.java © Product.java © ElectronicProduct.java © ClothingProduct.java × © BookProduct.java © Customer.java © Cart.java © Order.java

2 usages
1 public class ClothingProduct extends Product{
2 3 usages
3 private String size;
4 3 usages
5 private String fabric;
6 no usages
7 public ClothingProduct(){}
8 1 usage
9 public ClothingProduct(int productId,String name,float price,String size,String fabric){
10 super(productId,name,price);
11 this.fabric=fabric;
12 this.size=size;
13 }
14
15 no usages
16 public String getSize() {
17 return size;
18 }
19
20 no usages
21 public void setSize(String size) {
22 this.size = size;
23 }
24
25 no usages
26 public String getFabric() {
27 return fabric;
28 }
29
30 no usages
31 public void setFabric(String fabric) {
32 }
33 }

untitled1 > src > ClothingProduct > getFabric

19:32 CRLF UTF-8 4 spaces

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Main.java EcommerceGUI.java Product.java ElectronicProduct.java ClothingProduct.java x BookProduct.java Customer.java Cart.java Order.java

```
public ClothingProduct(int productId,String name,float price,String size,String fabric){  
    super(productId,name,price);  
    this.fabric=fabric;  
    this.size=size;  
}
```

no usages

```
public String getSize() {  
    return size;  
}
```

no usages

```
public void setSize(String size) {  
    this.size = size;  
}
```

no usages

```
public String getFabric() {  
    return fabric;  
}
```

no usages

```
public void setFabric(String fabric) {  
    this.fabric = fabric;  
}
```

```
}
```

5 ^

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© Main.java © EcommerceGUL.java © Product.java © ElectronicProduct.java © ClothingProduct.java © BookProduct.java x © Customer.java © Cart.java © Order.java

2 usages
1 public class BookProduct extends Product{
2 3 usages
3 private String author;
4 3 usages
5 private String publisher;
6 no usages
7 public BookProduct(){}
8 1 usage
9 public BookProduct(int productId,String name,float price,String author,String publisher){
10 super(productId,name,price);
11 this.author=author;
12 this.publisher=publisher;
13 }
14
15 no usages
16 public String getAuthor() {
17 return author;
18 }
19
20 no usages
21 public void setAuthor(String author) {
22 this.author = author;
23 }
24
25 no usages
26 public String getPublisher() {
27 return publisher;
28 }
29
30 no usages
31 public void setPublisher(String publisher) {
32 }
33 }

Activate Windows
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untitled1 > src > BookProduct 271 CRLF UTF-8 4 spaces

main.java ElectronicProduct.java Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Car.java Order.java

```
5 public BookProduct(int productId,String name,float price,String author,String publisher){
6     super(productId,name,price);
7     this.author=author;
8     this.publisher=publisher;
9 }
10
11 no usages
12 public String getAuthor() {
13     return author;
14 }
15
16 no usages
17 public void setAuthor(String author) {
18     this.author = author;
19 }
20
21 no usages
22 public String getPublisher() {
23     return publisher;
24 }
25
26 no usages
27 public void setPublisher(String publisher) {
28     this.publisher = publisher;
29 }
30 }
```

littled1 > src > BookProduct

Activate Windows
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☰ Main.java EcommerceGUI.java Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java x Cart.java Order.java

2 usages
1 public class Customer {
2 usages
2 private int customerId;
3 usages
3 private String name;
3 usages
4 private String address;
no usages
5 public Customer(){}
6
1 usage
7 public Customer(int customerId, String name, String address) {
8 this.customerId = customerId;
9 this.name = name;
10 this.address = address;
11 }
12
no usages
13 public int getCustomerId() {
14 return customerId;
15 }
16
no usages
17 public void setCustomerId(int customerId) {
18 Math.abs(customerId);
19 }
20
no usages
21 public String getName() { return name; }
24
no usages

8 ^ v

untitled1 > src > Customer > setCustomerId

18:30 CRLF UTF-8 4 spaces

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Current File

122

EcommerceGUI.javaProduct.javaElectronicProduct.javaClothingProduct.javaBookProduct.javaCustomer.javaCart.javaMain.javaOrder.java

3 usages

1public class Cart {

3 usages

2private int customerId;

8 usages

3private static int nProducts;

8 usages

4private static Product[] products;

5

no usages

6public Cart() {

7}

8

1 usage

9public Cart(int customerId, int nProducts) {

10this.customerId = customerId;

11this.nProducts = Math.abs(nProducts);

12this.products = new Product[nProducts];

13}

14

no usages

15> public int getCustomerId() {return customerId;}

18

no usages

19> public void setCustomerId(int customerId) {Math.abs(customerId);}

22

no usages

23> public int getnProducts() {return nProducts;}

26

no usages

27> public void setnProducts(int nProducts) {Math.abs(nProducts);}

30

untitled1> src> Cart> removeProduct

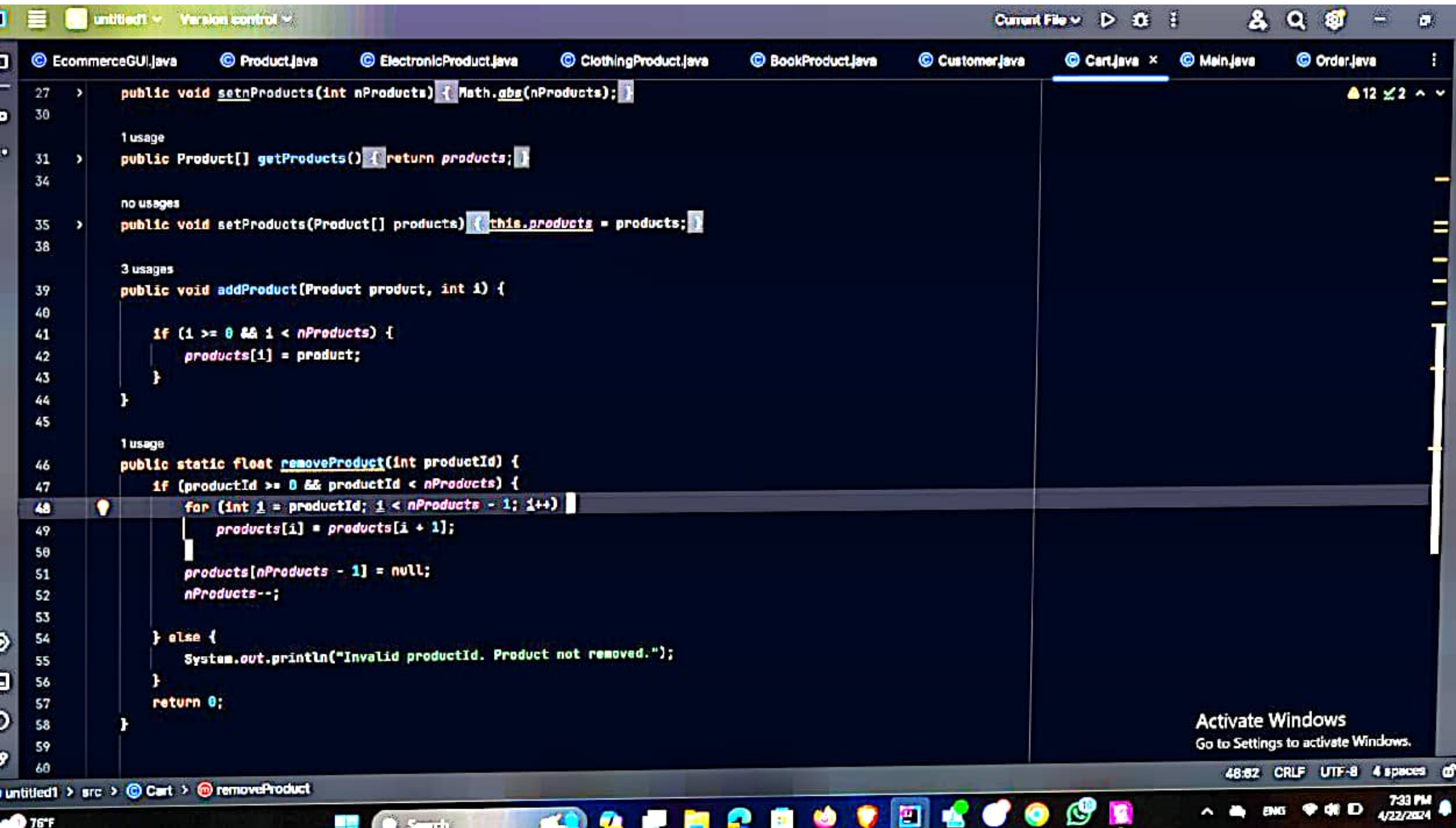
50:14CRLFUTF-84 spaces

Breaking news
Supreme Court will t...

Search

7:32 PM
4/22/2024

المسودة الأولى - CamScanner



```
products[nProducts - 1] = null;  
nProducts--;
```

```
} else {  
    System.out.println("Invalid productId. Product not removed.");  
}  
return 0;
```

```
}
```

2 usages

```
public float calculatePrice(){  
    float totalPrice=0;  
    for(int i =0; i<nProducts;i++){  
        totalPrice+= products[i].getPrice();  
    }  
    return totalPrice;  
}
```

1 usage

```
public void placeOrder() {  
    System.out.println("Order placed successfully for customer ID: " + customerId);  
}
```

```
}
```

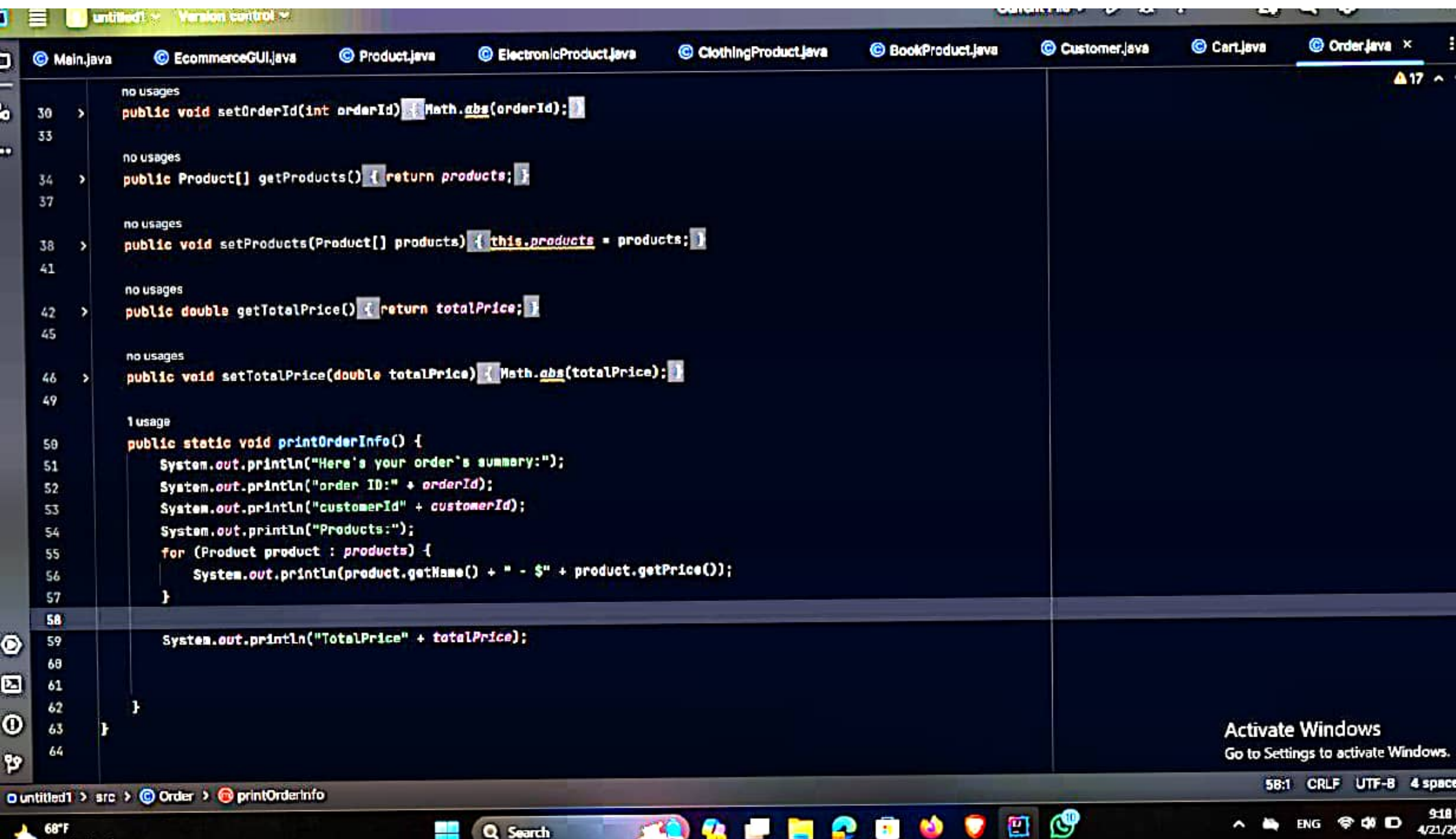
© Main.java © EcommerceGUI.java © Product.java © ElectronicProduct.java © ClothingProduct.java © BookProduct.java © Customer.java © Cart.java © Order.java x

1 3 usages
public class Order {
2
3 3 usages
private static int customerId;
3 usages
4 private static int orderId;
4 usages
5 private static Product[] products;
3 usages
6 private static double totalPrice;
7
no usages
8 public Order() {
9 }
10
1 usage
11 public Order(int customerId, int orderId, Product[] products, double totalPrice) {
12 this.customerId = customerId;
13 this.orderId = orderId;
14 this.products = products;
15 this.totalPrice = totalPrice;
16 }
17
no usages
18 > public int getCustomerId() { return customerId; }
21
no usages
22 > public void setCustomerId(int customerId) { Math.abs(customerId); }
25
no usages
26 > public int getOrderId() { return orderId; }

17 ^ v

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untitled1 > src > Order > printOrderInfo 58:1 CRLF UTF-8 4 spaces




```
Run Main x
"C:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:C:\Users\DELL\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\lib\idea_rt.jar=65290:C:\Users\DELL\AppData\Local\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\bin" -Dfile.encoding=UTF-8
Welcome to the E-commerce system!
Please enter your id
23811268
Please enter your name
Diana Adel
Please enter your address
1111
How many products you want to add to your cart?
4
Enter details for product 1:
1. Electronic Product
2. Clothing Product
3. Book Product
2
Enter details for product 2:
1. Electronic Product
2. Clothing Product
3. Book Product
3
Enter details for product 3:
1. Electronic Product
2. Clothing Product
3. Book Product
2
Enter details for product 4:
1. Electronic Product
2. Clothing Product
3. Book Product
```

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untitled1 > src > Main > main

17:55 LF UTF-8 4 spaces

```
Run Main x
Enter details for product 2:
1. Electronic Product
2. Clothing Product
3. Book Product
3
Enter details for product 3:
1. Electronic Product
2. Clothing Product
3. Book Product
2
Enter details for product 4:
1. Electronic Product
2. Clothing Product
3. Book Product
1
Your total is $679.8789256347656. Would you like to place the order? 1- Yes 2-No
1
Order placed successfully for customer ID: 23811260
Here's your order's summary:
order ID:1
customerId23811260
Products:
T-shirt - $19.99
OOP - $39.99
T-shirt - $19.99
smartphone - $599.9
TotalPrice679.8789256347656
```

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[illegible]

68°F Mostly cloudy Search 9:33 PM 4/21/2024

Customer ID:	23011260
Name:	Diana Adel
Address:	###
Number of Products:	4
<input type="button" value="Submit"/>	

Customer ID: 23011260
Name: Diana Adel
Address: ###
Number of Products: 4

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