

Ecommerce_System.java x product.java Electronic_product.java Clothing_product.java Book_product.java Custmoer.java

```
1 import java.util.Scanner;
2 import javax.swing.JOptionPane;
3 public class Ecommerce_System {
4     public static void main(String[] args) {
5         Scanner input = new Scanner(System.in);
6
7         Custmoer custmoer1 = new Custmoer( name: "Nada Fayez", address: "Alex", customerID: 23011585);
8         Electronic_product device1=new Electronic_product( productID: 1, name: "smart phone", price: 599.9, warrantyPeriod: 1, brand: "samsung");
9         Clothing_product clothes=new Clothing_product( productID: 2, name: "t-shirt", price: 19.99, size: "medium", fabric: "cotton");
10        Book_product book1=new Book_product( productID: 3, name: "harry potter", price: 39.99, author: "JK rowling", publisher: "X Publications");
11
12        JOptionPane.showMessageDialog( parentComponent: null, message: "welcome to E-commerce system!");
13
14        // Integer.parseInt( JOptionPane.showInputDialog("enter your ID")); #to sum up I put it in the constructor
15        JOptionPane.showMessageDialog( parentComponent: null, message: "ID "+(custmoer1.getCustomerID()));
16
17        //JOptionPane.showInputDialog("enter your name");
18        JOptionPane.showMessageDialog( parentComponent: null, message: "Name: "+ (custmoer1.getName()));
19
20        //JOptionPane.showInputDialog("enter your address");
21        JOptionPane.showMessageDialog( parentComponent: null, message: "Address is "+ (custmoer1.getAddress()));
22
23        int nproducts = Integer.parseInt( JOptionPane.showInputDialog ("How many products you want to add to your cart?"));
```

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```
3 public class Ecommerce_System {
4     public static void main(String[] args) {
5
6         cart cart1=new cart( );
7         cart1.setNproducts(nproducts);
8         product[ ] p=new product[cart1.getNproducts()];
9         cart1.setProuducts(p);
10        cart1.setCustomerID(custmoer1.getCustomerID());
11
12        for(int j=0;j<nproducts;j++){
13            int choice= Integer.parseInt( JOptionPane.showInputDialog ( "which product you want to add to your cart? 1-smart phone, 2-t-shirt, 3-harry potter book"));
14            //int choice=input.nextInt();
15            switch (choice){
16                case 1:
17                    cart1.getProuducts()[j]=device1;
18                    //cart1.Add_product(j,device1);    #another solution by add method
19                    break;
20                case 2:
21                    cart1.getProuducts()[j]=clothes;
22                    // cart1.Add_product(j,clothes);
23                    break;
24                case 3:
25                    cart1.getProuducts()[j]=book1;
26                    // cart1.Add_product(j,book1);
27                    break;
28                default:
29                    JOptionPane.showMessageDialog( parentComponent: null, message: "invalid");
30            }
31        }
32    }
33 }
```

```

34 switch (choice){
35     case 1:
36         cart1.getProuducts()[0]=device1;
37         //cart1.Add_product(j,device1);    #another solution by add method
38         break;
39     case 2:
40         cart1.getProuducts()[0]=clothes;
41         // cart1.Add_product(j,clothes);
42         break;
43     case 3:
44         cart1.getProuducts()[0]=book1;
45         // cart1.Add_product(j,book1);
46         break;
47     default:
48         JOptionPane.showMessageDialog (parentComponent: null, message: "Invalid");
49 }
50 JOptionPane.showMessageDialog (parentComponent: null, message: "your total is"+ cart1.calculatePrice());
51 int num= Integer.parseInt( JOptionPane.showInputDialog("Would you like to place the order? 1- yes , 2-No"));
52     cart1.place_order(num);
53 }

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1import java.awt.geom.Arc2D;
2
3public class product { 15 usages 3 inheritors
4 protected int productID; 3 usages
5 protected String name; 3 usages
6 protected double price; 3 usages
7
8 public product() { 3 usages
9 }
10
11 public product(int productID, String name, double price) { 3 usages
12 this.productID = productID;
13 this.name = name;
14 this.price = price;
15 }
16
17 > public int getProductID() {return productID;}
20
21 > public void setProductID(int productID) {this.productID =Math.abs(productID) ;}
24
25 > public String getName() {return name;}
28
29 > public void setName(String name) {this.name = name;}
32
33 > public double getPrice() {return price;}
36
37 > public void setPrice(double price) {this.price =Math.abs(price);}
40
41}

5

Ecommerce_System.java product.java Electronic_product.java x Clothing_product.java Book_product.java Custmoer.java

1 public class Electronic_product extends product{ 2 usages

2 private String brand; 3 usages

3 private int warrantyPeriod; 3 usages

4

5 public Electronic_product() {} no usages

6 public Electronic_product(int productID, String name, double price, int warrantyPeriod, String brand) { 1 usage

7 super(productID, name, price);

8 this.warrantyPeriod = warrantyPeriod;

9 this.brand = brand;

10 }

11

12 public int getWarrantyPeriod() { no usages

13 return warrantyPeriod;}

14

15 > public void setWarrantyPeriod(int warrantyPeriod) { this.warrantyPeriod = Math.abs(warrantyPeriod); }

16

19 > public String getBrand() { return brand; }

22

23 > public void setBrand(String brand) { this.brand = brand; }

26 }

27

Ecommerce_System.java product.java Electronic_product.java Clothing_product.java x Book_product.java Custmoer.java

1 public class Clothing_product extends product{ 2 usages
2 private String size; 3 usages
3 private String fabric; 3 usages
4
5 public Clothing_product(){ no usages
6
7 public Clothing_product(int productID, String name, double price, String size, String fabric) { 1 usage
8 super(productID, name, price);
9 this.size = size;
10 this.fabric = fabric;
11 }
12
13 > public String getFabric() { return fabric; }
16
17 > public void setFabric(String fabric) { this.fabric = fabric; }
20
21 > public String getSize() { return size; }
24
25 public void setSize(String size) { no usages
26 this.size = size; }
27 }
28

5 ^ v

Ecommerce_System.java product.java Electronic_product.java Clothing_product.java Book_product.java x Custmoer.java

1 public class Book_product extends product { 2 usages

2 private String author; 3 usages

3 private String publisher; 3 usages

4

5 public Book_product(){ no usages

6

7 }

8 public Book_product(int productID, String name, double price, String author, String publisher) { 1 usage

9 super(productID, name, price);

10 this.author = author;

11 this.publisher = publisher;

12 }

13

14 > public String getAuthor() { return author; }

17

18 > public void setAuthor(String author) { this.author = author; }

21

22 > public String getPublisher() { return publisher; }

25

26 > public void setPublisher(String publisher) { this.publisher = publisher; }

29 }

30

5 ^ v

duct.java Electronic_product.java Clothing_product.java Book_product.java Custmoer.java x cart.java order.java

1 public class Custmoer { 2 usages
2 private String name; 3 usages
3 private String address; 3 usages
4 private int customerID; 3 usages
5
6 public Custmoer() 1 no usages
7
8 public Custmoer(String name, String address, int customerID) { 1 usage
9 this.name = name;
10 this.address = address;
11 this.customerID = customerID;
12 }
13
14 > public String getName() { return name; }
17
18 > public void setName(String name) { this.name = name; }
21
22 public String getAddress() { 1 usage
23 return address; }
24
25 > public void setAddress(String address) { this.address = address; }
28
29 > public int getCustomerID() { return customerID; }
32
33 > public void setCustomerID(int customerID) { this.customerID = Math.abs(customerID); }
36
37 }

4 1 ^ v

duct.java Electronic_product.java Clothing_product.java Book_product.java Custmoer.java cart.java x order.java

1import javax.swing.JOptionPane;
2public class cart { 2 usages
3 private int CustomerID; 3 usages
4 private int nproducts; 3 usages
5 private product[] products; 6 usages
6
7 public cart() { 1 usage
8 }
9 public void setProuducts(product[] prouducts) { 1 usage
10 this.products=new product[nproducts];
11 }
12
13 > public product[] getProuducts() {return products;}
16
17 > public int getCustomerID() {return CustomerID;}
20
21 > public void setCustomerID(int customerID) {this.CustomerID =Math.abs(CustomerID);}
24
25 > public int getNproducts() {return nproducts;}
28
29 public void setNproducts(int nproducts) { 1 usage
30
31 this.nproducts = Math.abs(nproducts);
32 }
33

6 7

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luct.java  Electronic_product.java  Clothing_product.java  Book_product.java  Custmoer.java  cart.java x  order.java  v  :
2  public class cart { 2 usages
34  public double calculatePrice() { 2 usages
35      double total_price=0;
36      for(product i:products){
37          if(i!=null){
38              total_price+= i.getPrice();
39          }
40      }
41      return total_price; }
42  public void Add_product(int i,product product){ no usages
43      products[i]=product;
44  }
45
46  public void Remove_product(int i,product product){ no usages
47      products[i]=null;
48  }
49
50  public void place_order(int num){ 1 usage
51      order o1=new order( customerID: 23011585, orderID: 1,calculatePrice(),products);
52      switch (num){
53          case 1:
54              JOptionPane.showMessageDialog( parentComponent: null, ("Here's your order summary:"));
55              o1.printOrderInfo();
56              break;
57          case 2:
58              JOptionPane.showMessageDialog( parentComponent: null, ("ok thank you"));
59              break;
60      }
61  }
```

duct.java Electronic_product.java Clothing_product.java Book_product.java Custmoer.java cart.java order.java x

```
1  import javax.swing.JOptionPane;
2  public class order { 2 usages
3      private int customerID; 2 usages
4      private int orderID; 2 usages
5      private double totalPrice; 2 usages
6      private product[] prouducts; 2 usages
7
8      public order() {} no usages
9
10     public order(int customerID, int orderID, double totalPrice, product[] prouducts) { 1 usage
11         this.customerID = customerID;
12         this.orderID = orderID;
13         this.totalPrice = totalPrice;
14         this.prouducts = prouducts;}
15
16     public void printOrderInfo() { 1 usage
17         JOptionPane.showMessageDialog( parentComponent: null, ("customer ID is: " + customerID));
18         JOptionPane.showMessageDialog( parentComponent: null, ("order ID is: " + orderID));
19         for(product i:prouducts){
20             JOptionPane.showMessageDialog( parentComponent: null, (i.getName() + " is " + i.getPrice() + " $"));
21         }
22         JOptionPane.showMessageDialog( parentComponent: null, ("total price is: " + totalPrice));
23     }}
```