

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

e-commerce \ src \ com \ company \ Main

Main.java x product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Customer.java x Cart.java x

```
1 package com.company;
2 import java.util.Scanner;
3 public class Main {
4
5     public static void main(String[] args) {
6         Scanner scan = new Scanner(System.in);
7         product electronic = new ElectronicProduct( name: "smartphone", productId: 1, price: 599.9f, brand: "Samsung", warrantyPeriod: 1);
8         product clothing = new ClothingProduct( name: "T-shirt", productId: 2, price: 19.99f, size: "Medium", fabric: "Cotton");
9         product book = new BookProduct( name: "OOP", productId: 3, price: 39.99f, author: "O Reilly", publisher: "X Publications");
10         System.out.println("Welcome to the E-commerce System!");
11         System.out.println(" Enter your ID ");
12         int ID=scan.nextInt();
13         scan.nextLine();
14         System.out.println(" Enter your name");
15         String name =scan.nextLine();
16         System.out.println(" Enter your address ");
17         String address = scan.nextLine();
18         Customer customer=new Customer(ID,name,address);
19
20         System.out.println("How many products do you want to add to your cart?");
21         int nProducts = scan.nextInt();
22         Cart cart = new Cart(customer.getCustomerId(),nProducts);
23
24         for (int i = 0;i<nProducts;i++) {
25             System.out.println("Which product would you like to add? 1- smartphone 2- T-shirt 3- OOP" );
26             int productChoice = scan.nextInt();
27             product product;
```

Main > main()

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

e-commerce > src > com > company > Main

Main ▾ ▶ ⚙️ 🔍

1: Project Main.java x product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Customer.java x Cart.java x 2: Structure

```
27     product product;
28     switch (productChoice){
29         case 1:
30         product=new ElectronicProduct( name: "smartphone", productId: 1, price: 599.9f, brand: "Samsung", warrantyPeriod: 1);
31         break;
32         case 2:
33         product= new ClothingProduct( name: "T-shirt", productId: 2, price: 19.99f, size: "Medium", fabric: "Cotton");
34         break;
35         case 3:
36         product = new BookProduct( name: "OOP", productId: 3, price: 39.99f, author: "O Reilly", publisher: "X Publications");
37         break;
38         default:
39         System.out.println("Invalid choice ");
40         i--;
41         continue;
42     } cart.addProduct(product,i);
43
44 }
45 System.out.println("Your total is "+cart.calculatePrice()+" Do you want to place an order for the products in your cart");
46 int resp = scan.nextInt();
47 if (resp==1){
48     System.out.println("Here is your order summary");
49     Order order =new Order(ID, orderId: 1, cart.getProducts(), (float)cart.calculatePrice());
50     order.printOrderInfo();
51 }
52 }
53 }
```

Main > main()

Run: Main x

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

e-commerce > src > com > company > product

Main

Main.java x product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Customer.java x Cart.java x

1 package com.company;

2

3 public class product {

4 private String name;

5 private int productId;

6 private float price;

7 public product(String name,int productId,float price){

8 this.name=name;

9 this.productId=Math.abs(productId);

10 this.price=Math.abs(price);

11 }

12 public void setName(String name) { this.name = name; }

15

16 public String getName() { return name; }

19

20 public void setProductId(int productId) { this.productId = Math.abs(productId); }

23

24 public int getProductId() { return productId; }

27

28 public void setPrice(float price) { this.price = Math.abs(price); }

31

32 public float getPrice() { return price; }

35 }

36

product

Run: Main

0: Messages 4: Run 6: TODO Terminal

Error: java.awt.print.PrinterAbortException (53 minutes ago)

3:14 CRLF UTF-8 4 spaces

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

e-commerce > src > com > company > ElectronicProduct

Main

Main.java x product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Customer.java x Cart.java x

```
1 package com.company;
2
3 public class ElectronicProduct extends product {
4     private String brand;
5     private int warrantyPeriod;
6     public ElectronicProduct(String name,int productId,float price,String brand,int warrantyPeriod){
7         super(name,productId,price);
8         this.brand=brand;
9         this.warrantyPeriod=Math.abs(warrantyPeriod);
10    }
11    public void setBrand(String brand) {
12        this.brand = brand;
13    }
14
15    public String getBrand() {
16        return brand;
17    }
18
19    public void setWarrantyPeriod(int warrantyPeriod) {
20        this.warrantyPeriod = Math.abs(warrantyPeriod);
21    }
22
23    public int getWarrantyPeriod() {
24        return warrantyPeriod;
25    }
26 }
27
```

ElectronicProduct

Run: Main

0: Messages 4: Run 6: TODO Terminal

Error: java.awt.print.PrinterAbortException (55 minutes ago)

3:14 CRLF UTF-8 4 spaces

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

e-commerce \ src \ com \ company \ ClothingProduct

Main

Main.java x product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Customer.java x Cart.java x

```
1 package com.company;
2
3 public class ClothingProduct extends product {
4     private String size;
5     private String fabric;
6     public ClothingProduct(String name,int productld,float price,String size,String fabric){
7         super(name,productld,price);
8         this.size=size;
9         this.fabric=fabric;
10    }
11    public void setSize(String size) {
12        this.size = size;
13    }
14
15    public String getSize() {
16        return size;
17    }
18
19    public void setFabric(String fabric) {
20        this.fabric = fabric;
21    }
22
23    public String getFabric() {
24        return fabric;
25    }
26 }
27
```

ClothingProduct

Run: Main x

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

e-commerce \ src \ com \ company \ BookProduct

Main ▶ ⚙️ ↺ 🏠 🔍

Main.java × product.java × ElectronicProduct.java × ClothingProduct.java × BookProduct.java × Customer.java × Cart.java ×

```
1 package com.company;
2
3 public class BookProduct extends product {
4     private String author;
5     private String publisher;
6     public BookProduct(String name,int productId,float price,String author ,String publisher){
7         super(name,productId,price);
8         this.author=author;
9         this.publisher= publisher;
10    }
11    public void setAuthor(String author) {
12        this.author = author;
13    }
14
15    public String getAuthor() {
16        return author;
17    }
18
19    public void setPublisher(String publisher) {
20        this.publisher = publisher;
21    }
22
23    public String getPublisher() {
24        return publisher;
25    }
26 }
27
```

BookProduct

Run: Main × ⚙️

0: Messages ▶ 4: Run 6: TODO Terminal

Error: java.awt.print.PrinterAbortException (57 minutes ago) 3:14 CRLF UTF-8 4 spaces 1 Event Log

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

e-commerce \ src \ com \ company \ Customer

Main ▶ ⚙️ 🔍

Main.java x product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Customer.java x Cart.java x

```
1 public class Customer {
2
3     private int customerId;
4     private String name;
5     private String address;
6     public Customer(int customerId,String name,String address){
7         this.customerId=Math.abs(customerId);
8         this.name=name;
9         this.address=address;
10    }
11    public void setCustomerId(int customerId) {
12        this.customerId = Math.abs(customerId);
13    }
14    public int getCustomerId() {
15        return customerId;
16    }
17    public void setName(String name) {
18        this.name = name;
19    }
20    public String getName() {
21        return name;
22    }
23    public void setAddress(String address) {
24        this.address = address;
25    }
26    public String getAddress() {
27        return address;
28    }
29 }
```

Run: Main x

0: Messages ▶ 4: Run ⚙️ 6: TODO 📄 Terminal

1 Event Log

Error: java.awt.print.PrinterAbortException (today 02:08)

1:21 CRLF UTF-8 4 spaces

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

e-commerce src com company Cart

Main

Main.java product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java

Project

1: Project

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File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

e-commerce src com company Cart

Main.java product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java

```
28 public product[] getProducts() {
29     return products; }
30 public void addProduct(product product,int index){
31     if(index>=0&& index < nProducts){
32         products[index]=product;
33     }else {
34         System.out.println("invalid index");
35     }
36 }
37 public void removeProduct(int index){
38     if(index >=0&& index< nProducts){
39         products[index]=null;
40     }else {
41         System.out.println(" invalid index");
42     }
43 }
44 public double calculatePrice(){
45     float totalPrice= 0;
46     for (product product: products){
47         if (product!=null){ totalPrice+=product.getPrice(); }
48     }
49     return totalPrice;
50 }
51 public void placeOrder(){
52     System.out.println("Order Placed Successfully");
53 }
```

Cart > getProducts()

Run: Main

0: Messages 4: Run 6: TODO Terminal

Error: java.awt.print.PrinterAbortException (today 02:08)

29:26 CRLF UTF-8 4 spaces Event Log

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

e-commerce src com company Order

Main

ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java Order.java e-commerce.iml

```
1 package com.company;
2 public class Order {
3     private int customerId;
4     private int orderId;
5     private product[] products;
6     private float totalPrice;
7
8     public Order(int customerId, int orderId, product[] products, float totalPrice){
9         this.customerId=Math.abs(customerId);
10        this.orderId=Math.abs(orderId);
11        this.totalPrice=Math.abs(totalPrice);
12        this.products=products;
13    }
14
15    public void setCustomerId(int customerId) { this.customerId = Math.abs(customerId); }
16
17
18
19    public int getCustomerId() { return customerId; }
20
21
22
23    public void setOrderId(int orderId) { this.orderId =Math.abs( orderId); }
24
25
26
27    public int getOrderId() { return orderId; }
28
29
30
31    public void setProducts(product[] products) { this.products = products; }
32
33
34
35    public product[] getProducts() { return products; }
36
37
38
39    public void setTotalPrice(float totalPrice) { this.totalPrice =Math.abs( totalPrice); }
```

Run: Main

Messages Run TODO Terminal

Event Log

Error: java.awt.print.PrinterAbortException (today 02:08)

1:21 CRLF UTF-8 4 spaces

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

e-commerce src com company Order

ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java Order.java e-commerce.iml

```
35 public product[] getProducts() {
36     return products;
37 }
38
39 public void setTotalPrice(float totalPrice) {
40     this.totalPrice = Math.abs( totalPrice);
41 }
42
43 public float getTotalPrice() {
44     return totalPrice;
45 }
46 public void printOrderInfo(){
47     System.out.println("Order ID "+orderId);
48     System.out.println("Customer ID: "+ customerId);
49     System.out.println("Products :");
50     for (product product : products){
51         System.out.println(" - "+ product.getName() + " , Price :"+ product.getPrice());
52     }
53     System.out.println("total price "+ totalPrice);
54 }
55 }
56
```

Project
Structure
Favorites

Order > getTotalPrice()

Run: Main

0 Messages 4 Run 6 TODO Terminal

1 Event Log

Error: java.awt.print.PrinterAbortException (today 02:08 ص)

43:33 CRLF UTF-8 4 spaces

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

e-commerce \ src \ com \ company \ Main

Main.java x product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Customer.java x Cart.java x

Run: Main x

Welcome to the E-commerce System!

Enter your ID

23012084

Enter your name

Mohamed elhab mohamed

Enter your address

alex

How many products do you want to add to your cart?

4

Which product would you like to add? 1- smartphone 2- T-shirt 3- OOP

2

Which product would you like to add? 1- smartphone 2- T-shirt 3- OOP

3

Which product would you like to add? 1- smartphone 2- T-shirt 3- OOP

2

Which product would you like to add? 1- smartphone 2- T-shirt 3- OOP

1

Your total is 679.8699951171875 Do you want to place an order for the products in your cart? (1=yes or2- no)

1

Here is your order summary

Order ID 1

Customer ID 23012084

Products :

- T-shirt , Price :19.99

- OOP , Price :39.99

- T-shirt , Price :19.99

- smartphone , Price :599.9

total price 679.87

Name: Mohamed ehab mohamed

ID: 23012084