

EcommerceSystem.java Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java Order.java

```
1 public class Product {
2     private int productId;
3     private String name;
4     private float price;
5
6     public void setProductId(int productId) { this.productId = Math.abs(productId); }
7
8     public void setName(String name) { this.name = name; }
9
10    public void setPrice(float price) { this.price = Math.abs(price); }
11
12    public int getProductId() { return productId; }
13
14    public String getName() { return name; }
15
16    public float getPrice() { return price; }
17 }
```

1:22 CRLF UTF-8 4 spaces

EcommerceSystem.java Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java Order.java

```
1 public class ElectronicProduct extends Product {
2     private String brand;
3     private int warrantyPeriod;
4
5     public void setBrand(String brand) { this.brand = brand; }
6
7     public void setWarrantyPeriod(int warrantyPeriod) { this.warrantyPeriod = Math.abs(warrantyPeriod); }
8
9     public String getBrand() { return brand; }
10
11    public int getWarrantyPeriod() { return warrantyPeriod; }
12 }
```

2:26 CRLF UTF-8 4 spaces

```
EcommerceSystem.java master Current File
EcommerceSystem.java Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java Order.java
1 public class ClothingProduct extends Product{
2     2 usages
3     private String size;
4     2 usages
5     private String fabric;
6
7     1 usage
8     public void setSize(String size) {
9         this.size = size;
10    }
11
12    1 usage
13    public void setFabric(String fabric) {
14        this.fabric = fabric;
15    }
16
17    no usages
18    public String getSize() {
19        return size;
20    }
21
22    no usages
23    public String getFabric() {
24        return fabric;
25    }
26 }
```

untitled > src > ClothingProduct 1:45 CRLF UTF-8 4 spaces

```
EcommerceSystem.java master Current File
EcommerceSystem.java Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java Order.java
1 3 usages
2 public class BookProduct extends Product{
3     2 usages
4     private String author;
5     2 usages
6     private String publisher;
7
8     1 usage
9     public void setAuthor(String author) { this.author = author; }
10
11    1 usage
12    public void setPublisher(String publisher) { this.publisher = publisher; }
13
14    no usages
15    public String getAuthor() { return author; }
16
17    no usages
18    public String getPublisher() { return publisher; }
19 }
20
21 }
```

untitled > src > BookProduct > getPublisher 19:6 CRLF UTF-8 4 spaces

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EcommerceSystem.java Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java Order.java
1 public class Customer {
2     2 usages
3     private int customerId;
4     2 usages
5     private String name;
6     2 usages
7     private String address;
8
9
10
11     1 usage
12     public void setCustomerId(int customerId) {
13         this.customerId = Math.abs(customerId);
14     }
15
16
17     1 usage
18     public void setName(String name) { this.name = name; }
19
20
21     1 usage
22     public void setAddress(String address) { this.address = address; }
23
24
25     no usages
26     public int getCustomerId() { return customerId; }
27
28
29
30     no usages
31     public String getName() { return name; }
32
33
34     no usages
35     public String getAddress() { return address; }
36
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38 }
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```
EcommerceSystem.java master
Current File

EcommerceSystem.java Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java Order.java
1 public class Order {
2     3 usages
3     private int customerId;
4     3 usages
5     private int orderId;
6     3 usages
7     private Product[] products;
8     2 usages
9     private float totalPrice;
10    1 usage
11    public void setCustomerId(int customerId) { this.customerId = Math.abs(customerId); }
12
13    1 usage
14    public void setOrderId(int orderId) { this.orderId = Math.abs(orderId); }
15
16    1 usage
17    public void setProducts(Product[] products) { this.products = products; }
18
19    // getters
20    no usages
21    public int getCustomerId() { return customerId; }
22
23    no usages
24    public int getOrderId() { return orderId; }
25
26    no usages
27    public Product[] getProducts() { return products; }
28
29    1 usage
30    public void printOrderInfo() {
31        System.out.println("Order id: " + orderId);
32        System.out.println("Customer id: " + customerId);
33        System.out.println("Products: ");
34        for (Product product : products) {
35            if (product != null) {
36                System.out.println(product.getName() + " - " + product.getPrice());
37                totalPrice += product.getPrice();
38            }
39        }
40        System.out.println("Total price: " + totalPrice);
41    }
42}
```

15:12 CRLF UTF-8 4 spaces

```
EcommerceSystem.java master
Current File

EcommerceSystem.java Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java Order.java
1 import java.util.Scanner;
2 public class EcommerceSystem {
3     public static void main(String[] args) {
4         Scanner scanner = new Scanner(System.in);
5
6         System.out.println("Welcome to the e-commerce system!");
7         System.out.println("Please enter your id:");
8         int customerId = Math.abs(scanner.nextInt());
9         scanner.nextLine();
10
11         System.out.println("Please enter your name:");
12         String name = scanner.nextLine();
13
14         System.out.println("Please enter your address:");
15         String address = scanner.nextLine();
16
17         Customer customer = new Customer();
18         customer.setCustomerId(customerId);
19         customer.setName(name);
20         customer.setAddress(address);
21
22         System.out.println("How many products would you like to add to your cart?");
23         int nProducts = Math.abs(scanner.nextInt());
24         scanner.nextLine();
25
26         Cart cart = new Cart();
27         cart.setCustomerId(customerId);
28         cart.setNProducts(nProducts);
29
30         for (int i = 0; i < nProducts; i++) {
31             System.out.println("Which product would you like to add? ");
32             System.out.println("1 - smartphone");
33             System.out.println("2 - T-shirt");
34             System.out.println("3 - QDP");
35             int choice = scanner.nextInt();
36             scanner.nextLine();
37
38             Product product;
39             switch (choice) {
40                 case 1:
41                     product = new ElectronicProduct();
42                     product.setProductId(i);
43             }
44         }
45     }
46 }
```

```
EcommerceSystem.java x Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java Order.java
12 product.setProductId(1);
13 product.setName("smartphone");
14 product.setPrice(99.99);
15 ((ElectronicProduct) product).setBrand("Samsung");
16 ((ElectronicProduct) product).setWarrantyPeriod(1);
17 break;
18
19 case 2:
20 product = new ClothingProduct();
21 product.setProductId(2);
22 product.setName("T-shirt");
23 product.setPrice(19.99);
24 ((ClothingProduct) product).setSize("Medium");
25 ((ClothingProduct) product).setFabric("cotton");
26 break;
27
28 case 3:
29 product = new BookProduct();
30 product.setProductId(3);
31 product.setName("OOP");
32 product.setPrice(19.99);
33 ((BookProduct) product).setAuthor("D'Reilly");
34 ((BookProduct) product).setPublisher("X Publications");
35 break;
36
37 default:
38 System.out.println("Invalid choice. Please try again.");
39 i--;
40 continue;
41
42 }
43
44 cart.addProduct(i, product);
45 }
46
47 System.out.println("Your total is "+cart.calculatePrice()+" would you like to place the order? yes or no");
48 String confirmation=scanner.next();
49
50 if(confirmation.equals("yes")){
51 System.out.println("Here's Your order's summary:");
52 Order order = new Order();
53 order.setCustomerId(customerId);
54 order.setOrderId(1);
55 order.setProducts(cart.getProducts());
56 order.printOrderInfo();
57 }
58 }
59 }
60 }
61 }
62 }
```

untitled > src > EcommerceSystem 1:26 LF UTF-8 4 spaces

Run - EcommerceSystem.java

Run EcommerceSystem x

D:\Java\bin\java.exe "-javaagent:D:\IntelliJ IDEA Community Edition 2023.3.6\lib\idea\_rt.jar=52223:D:\IntelliJ IDEA Community Edition 2023.3.6\bin" -Dfile.encoding=UTF-8 -classpath C:\U...

Welcome to the e-commerce system!

Please enter your id:  
23012068

Please enter your name:  
mina wahid

Please enter your address:  
address

How many products would you like 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 679.87 would you like to place the order? yes or no  
yes

Your total is 679.87 would you like to place the order? yes or no

yes

Here's Your order's summary:

Order id: 1

Customer id: 23012068

Products:

T-shirt - 19.99

00P - 39.99

T-shirt - 19.99

smartphone - 599.9

Total price: 679.87

Process finished with exit code 0

|