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387.9/633.0MB

Start Page x EcommerceSystem.java x Product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Customer.java x Cart.java x Order.java x ECommerceGUI.java x JavaApplica...
Source History

1 /*
2  * Click https://nhost/SystemFileSystem/Templates/licenses/license-default.txt to change this license
3  * Click https://nhost/SystemFileSystem/Templates/Classes/Main.java to edit this template
4  */
5 package ecommercesystem;
6 import java.util.Scanner;
7
8 /**
9  *
10  * @author PC
11  */
12 public class EcommerceSystem {
13
14     /**
15      * @param args the command line arguments
16      */
17     public static void main(String[] args) {
18         // TODO code application logic here
19         Scanner cs = new Scanner(System.in);
20
21         ElectronicProduct electronicProduct = new ElectronicProduct("Apple", warrantyPeriod: 1, productId: 1, name: "smartphone", (float) 599.9);
22         ClothingProduct clothingProduct = new ClothingProduct(size: "Small", fabric: "Cotton", productId: 2, name: "T-shirt", (float) 19.99);
23         BookProduct bookProduct = new BookProduct(author: "Jane Austin", publisher: "Pearson", productId: 3, name: "OOP", (float) 39.99);
24
25         // Create customer
26         System.out.print("Enter customer ID: ");
27         int customerId = cs.nextInt();
28         System.out.print("Enter your name: ");
29         String customerName = cs.nextLine();
30         cs.nextLine();
31         System.out.print("Enter your address: ");
32         String customerAddress = cs.nextLine();
33         Customer customer = new Customer(customerId, name: customerName, address: customerAddress);
34
35         System.out.println("How many products do you want to add to your cart? ");
36         int itemnum = cs.nextInt();
37     }
38 }
```

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Source History

36 System.out.println("How many products do you want to add to your cart? ");
37 int itemnum = cs.nextInt();
38 Cart cart = new Cart(customerId, nProducts: itemnum);
39
40 for(int i = 0; i < itemnum; i++) {
41     System.out.println("Which product would you like to add \n 1- Smartphone 2- T-shirt 3- OOP ");
42     int choice = cs.nextInt();
43     switch(choice) {
44         case 1 :
45             cart.addProduct(products: electronicProduct);
46             break;
47         case 2 :
48             cart.addProduct(products: clothingProduct);
49             break;
50         case 3 :
51             cart.addProduct(products: bookProduct);
52             break;
53         default :
54             System.out.println("Invalid option");
55     }
56 }
57
58 System.out.print("The total is $" + cart.calculatePrice() + " ");
59 System.out.println("Would you like to place the order? \n 1- Yes 2- No");
60 int option = cs.nextInt();
61 switch(option) {
62     case 1 :
63         cart.placeOrder();
64         System.out.println("Order placed successfully");
65         break;
66     case 2 :
67         System.out.println("Thank you");
68         break;
69     default :
70         System.out.println("Invalid option");
71 }
72 }
```

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Source History
package ecommercesystem;

/**
 * @author PC
 */
public class Product {
    private int productId;
    private String name;
    private float price;

    Product(int productId, String name, float price) {
        this.productId = productId;
        this.name = name;
        this.price = price;
    }

    public int getProductId() {
        return productId;
    }

    public String getName() {
        return name;
    }

    public float getPrice() {
        return price;
    }

    public int setProductId(int productId) {
        this.productId = productId;
        if(productId < 0){
            return Math.abs(productId);
        }else{
            return productId;
        }
    }
}
```

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Source History
    }

    public int getProductId() {
        return productId;
    }

    public String getName() {
        return name;
    }

    public float getPrice() {
        return price;
    }

    public int setProductId(int productId) {
        this.productId = productId;
        if(productId < 0){
            return Math.abs(productId);
        }else{
            return productId;
        }
    }

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

    public float setPrice(float price) {
        this.price = price;
        if(price < 0){
            return Math.abs(price);
        }else{
            return price;
        }
    }
}
```

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Source History
6
7 /**
8  *
9  * @author PC
10 */
11 public class ElectronicProduct extends Product {
12     private String brand;
13     private int warrantyPeriod;
14
15     ElectronicProduct(String brand, int warrantyPeriod, int productId, String name, float price) {
16         super(productId, name, price);
17         this.brand = brand;
18         this.warrantyPeriod = warrantyPeriod;
19     }
20
21     public String getBrand() {
22         return brand;
23     }
24
25     public int getWarrantyPeriod() {
26         return warrantyPeriod;
27     }
28
29     public void setBrand(String brand) {
30         this.brand = brand;
31     }
32
33     public int setWarrantyPeriod(int warrantyPeriod) {
34         this.warrantyPeriod = warrantyPeriod;
35         if(warrantyPeriod < 0) {
36             return Math.abs(warrantyPeriod);
37         }
38         return warrantyPeriod;
39     }
40
41 }
42
```

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2
3 * Click https://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
4 * Click https://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
5
6 package ecommercesystem;
7
8 /**
9  *
10 * @author PC
11 */
12 public class ClothingProduct extends Product {
13     private String size;
14     private String fabric;
15
16     ClothingProduct(String size, String fabric, int productId, String name, float price) {
17         super(productId, name, price);
18         this.size = size;
19         this.fabric = fabric;
20     }
21
22     public String getSize() {
23         return size;
24     }
25
26     public String getFabric() {
27         return fabric;
28     }
29
30     public void setSize(String size) {
31         this.size = size;
32     }
33
34     public void setFabric(String fabric) {
35         this.fabric = fabric;
36     }
37 }
38
```

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Source History
package ecommercesystem;

/**
 *
 * @author PC
 */
public class BookProduct extends Product{
    private String author;
    private String publisher;

    BookProduct(String author, String publisher, int productId, String name, float price){
        super(productId, name, price);
        this.author = author;
        this.publisher = publisher;
    }

    public String getAuthor(){
        return author;
    }

    public String getPublisher(){
        return publisher;
    }

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

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

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Source History
public class Customer {
    private int customerId;
    private String name;
    private String address;

    Customer(int customerId, String name, String address){
        this.customerId = customerId;
        this.name = name;
        this.address = address;
    }

    public int getCustomerId(){
        return customerId;
    }

    public String getName(){
        return name;
    }

    public String getAddress(){
        return address;
    }

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

    public int setCustomerId(int customerId){
        this.customerId = customerId;
        if(customerId < 0){
            return Math.abs(customerId);
        }else{
            return customerId;
        }
    }

    public void setAddress(String address){

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```
17 this.customerId = customerId;
18 this.name = name;
19 this.address = address;
20 }
21
22 public int getCustomerId() {
23     return customerId;
24 }
25
26 public String getName() {
27     return name;
28 }
29
30 public String getAddress() {
31     return address;
32 }
33
34 public void setName(String name) {
35     this.name = name;
36 }
37
38 public int setCustomerId(int customerId) {
39     this.customerId = customerId;
40     if (customerId < 0) {
41         return Math.abs(customerId);
42     } else {
43         return customerId;
44     }
45 }
46
47 public void setAddress(String address) {
48     this.address = address;
49 }
50
51
52
53
```

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```
41 }
42
43
44 public int setnProducts(int nProducts) {
45     this.nProducts = nProducts;
46     if (nProducts < 0) {
47         return Math.abs(nProducts);
48     } else {
49         return nProducts;
50     }
51 }
52
53 public void setProducts(Product[] products) {
54     this.products = products;
55 }
56
57 public void addProduct(Product product) {
58     products[this.element] = product;
59     this.element++;
60 }
61
62
63 public void removeProduct(int index) {
64     if (index >= 0 && index < nProducts) {
65         // Shift elements to remove the product at index
66         for (int i = index; i < nProducts - 1; i++) {
67             products[i] = products[i + 1];
68         }
69         nProducts--;
70         products[nProducts] = null; // Set the last element to null for clarity
71     } else {
72         System.out.println("Invalid product index!");
73     }
74 }
75
76 public float calculatePrice() {
77     float totalPrice = 0;

```

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Source History
17 public void addProduct(Product product){
18     products[this.element] = product;
19     this.element++;
20 }
21
22 public void removeProduct(int index){
23     if (index >= 0 && index < nProducts){
24         // Shift elements to remove the product at index
25         for (int i = index; i < nProducts - 1; i++) {
26             products[i] = products[i + 1];
27         }
28         nProducts--;
29         products[nProducts] = null; // Set the last element to null for clarity
30     }else{
31         System.out.println("Invalid product index!");
32     }
33 }
34
35 public float calculatePrice(){
36     float totalPrice = 0;
37     for(int i = 0; i < nProducts; i++){
38         totalPrice += products[i].getPrice();
39     }
40     return totalPrice;
41 }
42
43 public void placeOrder(){
44     Order order = new Order(customerId, orderId, products, (float)calculatePrice());
45     order.printOrderInfo();
46 }
47
48
49
50
51
52
53
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Start Page x EcommerceSystem.java x Product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Customer.java x Cart.java x Order.java x ECommerceGUI.java x JavaApplica... x
Source History
11 public class Order {
12
13     private int customerId;
14     private int orderId;
15     private Product[] products;
16     private float totalPrice;
17
18     Order(int customerId, int orderId, Product[] products, float totalPrice){
19         this.customerId = customerId;
20         this.orderId = orderId;
21         this.products = products;
22         this.totalPrice = totalPrice;
23     }
24
25     public int getCustomerId(){
26         return customerId;
27     }
28
29     public int getOrderId(){
30         return orderId;
31     }
32
33     public Product[] getProducts(){
34         return products;
35     }
36
37     public double getTotalPrice(){
38         return totalPrice;
39     }
40
41     public int setCustomerId(int customerId){
42         this.customerId = customerId;
43         if(customerId < 0){
44             return Math.abs(customerId);
45         }
46         return customerId;
47     }
48 }
47:1 INS Windows (CRLF)
```

