Start Page × ECommerce.java × Product.java × ElectronicProduct.java × ClothingBrand.java × BookProduct.java × Customer.java ×

Source History

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package e.commerce;

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

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

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

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

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

    public int getProductId() {
        return productId;
    }
```

Project tree:

- JavaApplication18
  - Source Packages
    - javaapplication18
      - Car.java
      - JavaApplicatic
      - rectangle.java
  - Test Packages
  - Libraries
  - Test Libraries
- JavaApplication19
- JavaApplication2
- JavaApplication20
- JavaApplication3
- JavaApplication4
- JavaApplication6
  - Source Packages
    - javaapplication6
      - JavaApplicatic

Navigator ×

Members

- Product
  - Product(int productId, $
  - getName() : String
  - getPrice() : float
  - getProductId() : int
  - setName(String name)
  - setPrice(float price)
  - setProductId(int produc
  - name : String
  - price : float
  - productId : int

```java
    public String getName() {
        return name;
    }

    public float getPrice() {
        return price;
    }
}
```

```java
/*
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 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit thi
 */
package e.commerce;

/**
 *
 * @author Hello
 */
public class Cart {
    int customerId;
    int nProduct;
    Product[] products;
    int orderId = 1;

    public Cart(int customerId, int nProduct) {
        this.customerId = Math.abs(customerId);
        this.nProduct = nProduct;
        this.products = new Product[nProduct];
    }

    public void setCustomerId(int customerId) {
        this.customerId = customerId;
    }

    public void setnProduct(int nProduct) {
        this.nProduct = nProduct;
    }

    public void setProducts(Product[] products) {
        this.products = products;
    }

    public void setOrderId(int orderId) {
        this.orderId = orderId;
    }
}
```

```java
        }

        public int getCustomerId() {
            return customerId;
        }

        public int getnProduct() {
            return nProduct;
        }

        public Product[] getProducts() {
            return products;
        }

        public int getOrderId() {
            return orderId;
        }
        public void addProduct(Product p){
            products[this.orderId] = p;
            this.orderId++;
        }
        public void removeProduct(int index){
            if (index >= 0 && index< nProduct){
                for(int i = index; i<nProduct; i++){
                    products[i]=products[i+1];
                }
                nProduct--;
                products[nProduct]=null;
            }else{
                System.out.println("Invalid !!!");
            }
        }
        public float calculatePrice(){
            float totalPrice = 0;
            for(int i = 0; i<nProduct; i++){
                totalPrice+=products[i].getPrice();
            }
```

```java
73          }
74             return totalPrice;
75        }
76     public void placeOrder(Customer customer){
77         float totalPrice = calculatePrice();
78  Order order = new Order(orderId++, customer.getCustomerId(), this.nProduct, this.products, totalPrice);
79  order.printOrderInfo(customer);
80        }
81    }
82
```

```java
/*
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 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package e.commerce;

/**
 *
 * @author Hello
 */
public class Order {
    private int orderId;
private int customerId;
private Product[] products;
private float totalPrice;

public Order(int orderId, int customerId, int nProducts, Product[] products, float totalPrice) {
this.orderId = orderId;
this.customerId = customerId;
this.products = products;
this.totalPrice = totalPrice;
}

    public void setOrderId(int orderId) {
        this.orderId = orderId;
    }

    public void setCustomerId(int customerId) {
        this.customerId = customerId;
    }

    public void setProducts(Product[] products) {
        this.products = products;
    }

    public void setTotalPrice(float totalPrice) {
        this.totalPrice = totalPrice;
```

```java
    public void setTotalPrice(float totalPrice) {
        this.totalPrice = totalPrice;
    }

    public int getOrderId() {
        return orderId;
    }

    public int getCustomerId() {
        return customerId;
    }

    public Product[] getProducts() {
        return products;
    }

    public float getTotalPrice() {
        return totalPrice;
    }

public void printOrderInfo(Customer customer) {
System.out.println("Here's your order's summary:");
System.out.println("Order ID: " + this.orderId);
System.out.println("Customer ID: " + this.customerId);
System.out.println("Products:");
for (Product product : this.products) {
if (product != null) {
System.out.println(product.getName() + " $" + product.getPrice());
}
}
System.out.printf("Total Price: $%.2f%n", this.totalPrice);
}
}
```

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main.java to edit this template
 */
package e.commerce;
import java.util.Scanner;
public class ECommerce {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
ElectronicProduct smartphone = new ElectronicProduct(productId: 1, name: "Smartphone", price: 599.99f, brand: "Samsung", warrantyPeriod: 1);
ClothingBrand tShirt = new ClothingBrand(productId: 2, name: "T-Shirt", price: 19.99f, size: "Medium", fabric: "Cotton");
BookProduct oop = new BookProduct(productId: 3, name: "OOP", price: 39.99f, author: "O'Reilly", publisher: "X Publications");

Scanner scanner = new Scanner(source: System.in);
System.out.println(x: "Welcome to the E-Commerce System!");
System.out.print(s: "Please enter your id: ");
int customerId = scanner.nextInt();
scanner.nextLine();
System.out.print(s: "Please enter your name: ");
String name = scanner.nextLine();
System.out.print(s: "Please enter your address: ");
String address = scanner.nextLine();
Customer customer = new Customer(customerId, name, address);


System.out.print(s: "How many products do you want to add to your cart? ");
int nProducts = scanner.nextInt();
scanner.nextLine();
Cart cart = new Cart(customerId: customer.getCustomerId(), nProducts);
```

33:1   INS Windows
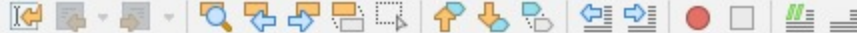
```java
34
35     for (int i = 0; i < nProducts; i++) {
36     System.out.println(x: "Which product would you like to add? 1- Smartphone 2- T-Shirt 3- OOP");
37     int choice = scanner.nextInt();
38     scanner.nextLine();
       switch (choice) {
40     case 1:
41     cart.addProduct(product:smartphone);
42     break;
43     case 2:
44     cart.addProduct(product:tShirt);
45     break;
46     case 3:
47     cart.addProduct(product:oop);
48     break;
49     default:
50     System.out.println(x: "Invalid choice. Skipping this product.");
51     break;
52     }
53     }
54     System.out.printf(format: "Your total is $%.5f. Would you like to place the order? 1- Yes 2- No%n", args: cart.calculatePrice());
55     int orderChoice = scanner.nextInt();
56     scanner.nextLine();
57     if (orderChoice == 1) {
58     cart.placeOrder(customer);
59     } else {
60     System.out.println(x: "Order canceled.");
61     }
62     }
63     }
64
```

Output - E-Commerce (run)

```
run:
Welcome to the E-Commerce System!
Please enter your id: 23012218
Please enter your name: Omar Medhat Abdelhady
Please enter your address: Smouha
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 $679.95996. Would you like to place the order? 1- Yes 2- No
1
Here's your order's summary:
Order ID: 1
Customer ID: 23012218
Products:
T-Shirt $19.99
OOP $39.99
T-Shirt $19.99
Smartphone $599.99
Total Price: $679.96
BUILD SUCCESSFUL (total time: 46 seconds)
```