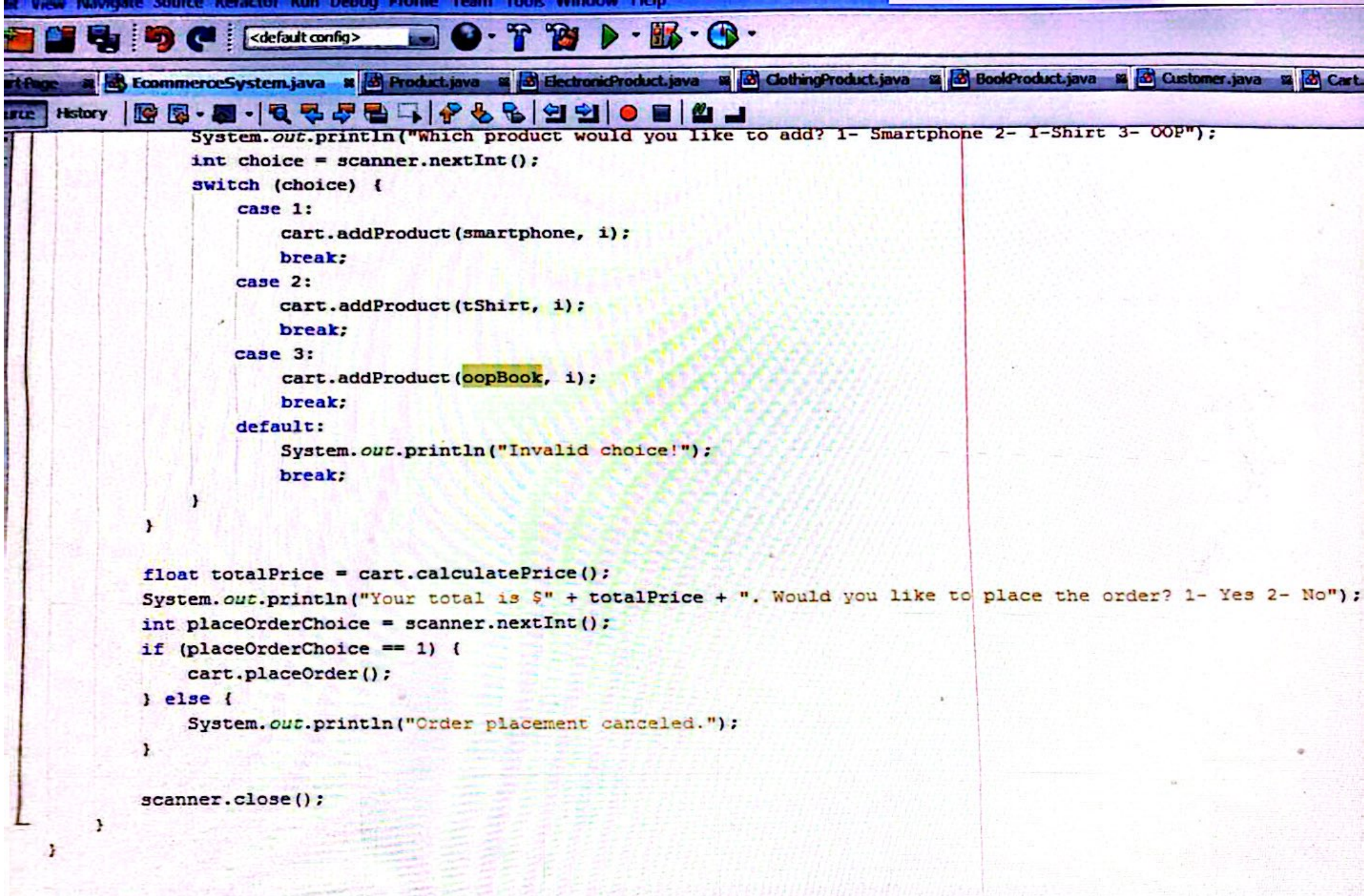


```

6 package ecommercesystem;
7
8 import java.util.Scanner;
9
10 public class EcommerceSystem {
11
12     public static void main(String[] args) {
13         Scanner scanner = new Scanner(System.in);
14
15         System.out.println("Welcome to the E-Commerce System!");
16
17         System.out.println("Please enter your id");
18         int customerId = scanner.nextInt();
19         scanner.nextLine(); // Consume newline
20         System.out.println("Please enter your name");
21         String name = scanner.nextLine();
22         System.out.println("Please enter your address");
23         String address = scanner.nextLine();
24         Customer customer = new Customer(customerId, name, address);
25
26         ElectronicProduct smartphone = new ElectronicProduct(1, "smartphone", 599.9f, "Samsung", 1);
27         ClothingProduct tShirt = new ClothingProduct(2, "T-shirt", 19.99f, "Medium", "Cotton");
28         BookProduct oopBook = new BookProduct(3, "OOP", 39.99f, "O'Reilly", "X Publications");
29
30         System.out.println("How many products you want to add to your cart?");
31         int nProducts = scanner.nextInt();
32         Cart cart = new Cart(customer.getCustomerId(), nProducts);
33
34         for (int i = 0; i < nProducts; i++) {
35             System.out.println("Which product would you like to add? 1- Smartphone 2- T-Shirt 3- OOP");
36             int choice = scanner.nextInt();
37             switch (choice) {

```

EcommerceSystem (r



```
System.out.println("Which product would you like to add? 1- Smartphone 2- I-Shirt 3- OOP");
int choice = scanner.nextInt();
switch (choice) {
    case 1:
        cart.addProduct(smartphone, 1);
        break;
    case 2:
        cart.addProduct(tShirt, 1);
        break;
    case 3:
        cart.addProduct(oopBook, 1);
        break;
    default:
        System.out.println("Invalid choice!");
        break;
}

float totalPrice = cart.calculatePrice();
System.out.println("Your total is $" + totalPrice + ". Would you like to place the order? 1- Yes 2- No");
int placeOrderChoice = scanner.nextInt();
if (placeOrderChoice == 1) {
    cart.placeOrder();
} else {
    System.out.println("Order placement canceled.");
}

scanner.close();
}
```



```
package ecommerceSystem;
```

```

class Product {
    private int productId;
    private String name;
    private float price;

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

    public int getProductId() {
        return productId;
    }

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

    public String getName() {
        return name;
    }

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

    public float getPrice() {
        return price;
    }
}

```



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

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

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

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

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

```
}
```

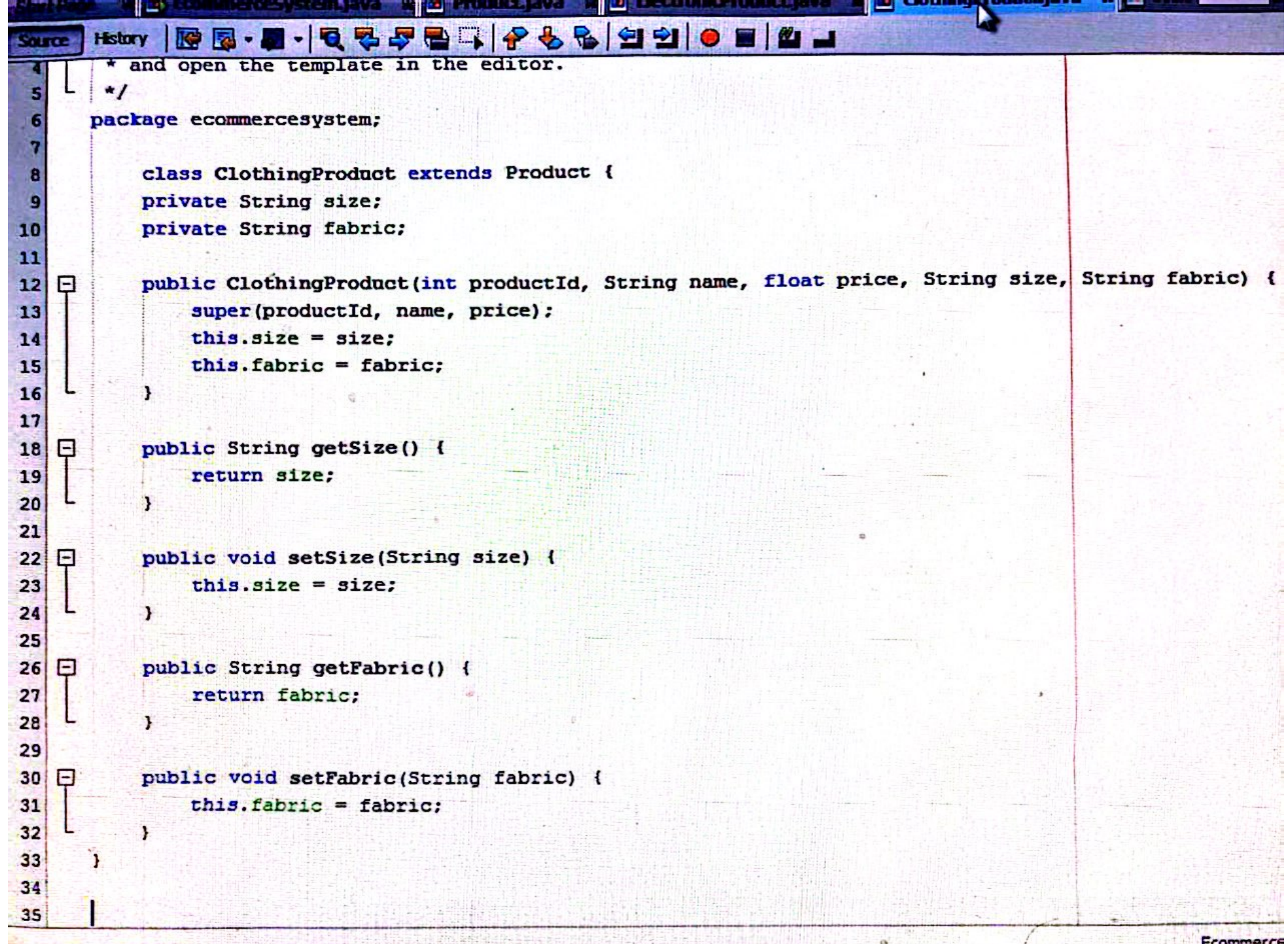

Start Page | EcommerceSystem.java | Product.java | ElectronicProduct.java | ClothingProduct.java | BookProduct.java | Custom...

Source | History | [Icons]

```
4  * and open the template in the editor.
5  */
6  package ecommercesystem;
7
8      class ElectronicProduct extends Product {
9      private String brand;
10     private int warrantyPeriod;
11
12     public ElectronicProduct(int productId, String name, float price, String brand, int warrantyPeriod) {
13         super(productId, name, price);
14         this.brand = brand;
15         this.warrantyPeriod = Math.abs(warrantyPeriod);
16     }
17
18     public String getBrand() {
19         return brand;
20     }
21
22     public void setBrand(String brand) {
23         this.brand = brand;
24     }
25
26     public int getWarrantyPeriod() {
27         return warrantyPeriod;
28     }
29
30     public void setWarrantyPeriod(int warrantyPeriod) {
31         this.warrantyPeriod = Math.abs(warrantyPeriod);
32     }
33 }
34
35
```

I

FrommerceSystem (run



```
4  * and open the template in the editor.
5  */
6  package ecommerceSystem;
7
8      class ClothingProduct extends Product {
9      private String size;
10     private String fabric;
11
12     public ClothingProduct(int productId, String name, float price, String size, String fabric) {
13         super(productId, name, price);
14         this.size = size;
15         this.fabric = fabric;
16     }
17
18     public String getSize() {
19         return size;
20     }
21
22     public void setSize(String size) {
23         this.size = size;
24     }
25
26     public String getFabric() {
27         return fabric;
28     }
29
30     public void setFabric(String fabric) {
31         this.fabric = fabric;
32     }
33 }
34
35
```


and open the template in the editor.

*/

```
package ecommerceSystem;
```

```
class BookProduct extends Product {  
    private String author;  
    private String publisher;
```

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

```
    public String getAuthor() {  
        return author;  
    }
```

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

```
    public String getPublisher() {  
        return publisher;  
    }
```

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

```
}
```



```
package ecommerceSystem;
```

```
class Customer {  
    private int customerId;  
    private String name;  
    private String address;
```

```
    public Customer(int customerId, String name, String address) {  
        this.customerId = Math.abs(customerId);  
        this.name = name;  
        this.address = address;  
    }
```

```
    public int getCustomerId() {  
        return customerId;  
    }
```

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

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

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

```
    public String getAddress() {  
        return address;  
    }
```



```
23  [-] public void setCustomerId(int customerId) {  
24      |     this.customerId = Math.abs(customerId);  
25      | }  
26  
27  [-] public String getName() {  
28      |     return name;  
29      | }  
30  
31  [-] public void setName(String name) {  
32      |     this.name = name;  
33      | }  
34  
35  [-] public String getAddress() {  
36      |     return address;  
37      | }  
38  
39  [-] public void setAddress(String address) {  
40      |     this.address = address;  
41      | }  
42  }  
43  
44  |
```



```
class Cart {
private int customerId;
private int nProducts;
private Product[] products;

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

public int getCustomerId() {
    return customerId;
}

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

public int getNProducts() {
    return nProducts;
}

public void setNProducts(int nProducts) {
    this.nProducts = Math.abs(nProducts);
}

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



```

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

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

    public void addProduct(Product product, int index) {
        products[index] = product;
    }

    public void removeProduct(int index) {
        products[index] = null;
    }

    public float calculatePrice() {
        float totalPrice = 0;
        for (Product product : products) {
            if (product != null) {
                totalPrice += product.getPrice();
            }
        }
        return totalPrice;
    }

    public void placeOrder() {
        System.out.println("Here's your order's summary:");
        System.out.println("Order ID: 1"); // Hardcoded for simplicity
        System.out.println("Customer ID: " + customerId);
        System.out.println("Products:");
    }
}

```



```
products[index] = null;
```

```
}  
  
public float calculatePrice() {  
    float totalPrice = 0;  
    for (Product product : products) {  
        if (product != null) {  
            totalPrice += product.getPrice();  
        }  
    }  
    return totalPrice;  
}
```

```
public void placeOrder() {  
    System.out.println("Here's your order's summary:");  
    System.out.println("Order ID: 1"); // Hardcoded for simplicity  
    System.out.println("Customer ID: " + customerId);  
    System.out.println("Products:");  
  
    for (Product product : products) {  
        if (product != null) {  
            System.out.println(product.getName() + " - $" + product.getPrice());  
        }  
    }  
  
    System.out.println("Total Price: $" + calculatePrice());  
}
```


run:

Welcome to the E-Commerce System!

Please enter your id

22012031

Please enter your name

BEGAD

Please enter your address

ADDRESS

How many products you want to add to your cart?

4

Which product would you like to add? 1- Smartphone 2- I-Shirt 3- OOP

2

Which product would you like to add? 1- Smartphone 2- I-Shirt 3- OOP

3

Which product would you like to add? 1- Smartphone 2- I-Shirt 3- OOP

2

Which product would you like to add? 1- Smartphone 2- I-Shirt 3- OOP

1

Your total is \$679.87. Would you like to place the order? 1- Yes 2- No

1

Here's your order's summary:

Order ID: 1

Customer ID: 22012031

Products:

T-shirt - \$19.99

OOP - \$39.99

T-shirt - \$19.99

smartphone - \$599.9

Total Price: \$679.87

BUILD SUCCESSFUL (total time: 1 minute 48 seconds)