

```

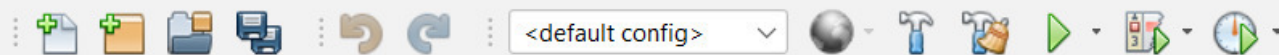
1 package ecommerceSystem;
2 import javax.swing.JOptionPane;
3 public class EcommerceSystem {
4     public static void main(String[] args) {
5         JOptionPane.showMessageDialog(parentComponent: null, message: "Welcome to the E-Commerce System!");
6         ElectronicProduct e=new ElectronicProduct(productId: 1,name: "Smartphone",price: 599.9f,brand: "Sumsung",warrantyPeriod:1);
7         ClothingProduct c=new ClothingProduct(productId: 2,name: "T-shirt",price: 19.99f,size: "Medium",fabric: "Cotton");
8         BookProduct b=new BookProduct(productId: 3,name: "OOP",price: 39.99f,author: "O'Reilly",publisher: "X Publications");
9         Customer x=new Customer();
10         int id=Integer.parseInt(s: JOptionPane.showInputDialog(message: "Please enter your ID"));
11         x.set_customerId(customerId: id);
12         String n=JOptionPane.showInputDialog(message: "Please enter your name");
13         x.set_name(name: n);
14         String a=JOptionPane.showInputDialog(message: "Please enter your address");
15         x.set_address(address: a);
16         int np=Integer.parseInt(s: JOptionPane.showInputDialog(message: "How many products you want to add to your cart?"));
17         Cart cart=new Cart(size: np);
18         cart.set_nProducts(nProducts: np);
19         for(int i=0;i<cart.get_nProducts();i++){
20             Product p=null;
21             int y=Integer.parseInt(s: JOptionPane.showInputDialog("which product you would like to add? "+e.get_productId()+"-"+e.get_name()+
22                 "+ "+c.get_productId()+"-"+c.get_name()+" "+b.get_productId()+"-"+b.get_name()));
23             if(y==e.get_productId())
24                 p=e;
25             else if(y==c.get_productId())
26                 p=c;
27             else if(y==b.get_productId())
28                 p=b;
29             else
30                 JOptionPane.showMessageDialog(parentComponent: null, message: "Invalid product ID. ");
31             cart.addProduct(p);

```

```

13         x.set_name(name: n);
14         String a=JOptionPane.showInputDialog(message: "Please enter your address");
15         x.set_address(address: a);
16     int np=Integer.parseInt(s: JOptionPane.showInputDialog(message: "How many products you want to add to your cart?"));
17     Cart cart=new Cart(size: np);
18     cart.set_nProducts(nProducts: np);
19     for(int i=0;i<cart.get_nProducts();i++){
20         Product p=null;
21         int y=Integer.parseInt(s: JOptionPane.showInputDialog("which product you would like to add? "+e.get_productId()+"-"+e.get_name()
22             +" "+c.get_productId()+"-"+c.get_name()+" "+b.get_productId()+"-"+b.get_name()));
23         if(y==e.get_productId())
24             p=e;
25         else if(y==c.get_productId())
26             p=c;
27         else if(y==b.get_productId())
28             p=b;
29         else
30             JOptionPane.showMessageDialog(parentComponent: null, message: "Invalid product ID." );
31         cart.addProduct(p);
32     }
33     Order o=new Order(customerId: x.get_customerId(), orderId: 1, products: cart.get_products(), totalPrice: cart.calculatePrice());
34     int choice=Integer.parseInt(s: JOptionPane.showInputDialog("Your total is $" +(cart.calculatePrice()) + ". Would you like to place the order? 1-Yes 2-No"));
35     if(choice==1){
36         cart.placeOrder(u: true);
37         o.printOrderInfo();
38     }
39     else{
40         cart.placeOrder(u: false);
41     }
42 }
43 }

```

Start Page × EcommerceSystem.java × Product.java × ElectronicProduct.java × Clothing.java ×

Projects

Source

History



```
1 package ecommerceSystem;
2 public class Product {
3     protected int productId;
4     protected String name;
5     protected float price;
6     public Product() {}
7     public Product(int productId, String name, float price) {
8         this.productId=Math.abs(a: productId);
9         this.name=name;
10        this.price=Math.abs(a: price);
11    }
12    public void set_productId(int productId) {
13        if(productId>0)
14            this.productId=productId;
15        else
16            this.productId=Math.abs(a: productId);
17    }
18    public void set_name(String name) {
19        this.name=name;
20    }
21    public void set_price(float price) {
22        if(price>0)
23            this.price=price;
24        else
25            this.price=Math.abs(a: price);
26    }
27    public int get_productId() {
28        return productId;
29    }
30    public String get_name() {
31        return name;
32    }
33 }
```



```
1 package ecommercesystem;
2 public class ElectronicProduct extends Product{
3     private String brand;
4     private int warrantyPeriod;
5     public ElectronicProduct () {}
6     public ElectronicProduct(int productId,String name,float price,String brand,int warrantyPeriod) {
7         super(productId,name,price);
8         this.brand=brand;
9         this.warrantyPeriod=Math.abs(a: warrantyPeriod);
10    }
11    public void set_brand(String brand) {
12        this.brand=brand;
13    }
14    public void set_warrantyPeriod(int warrantyPeriod) {
15        if(warrantyPeriod>0)
16            this.warrantyPeriod=warrantyPeriod;
17        else
18            this.warrantyPeriod=Math.abs(a: warrantyPeriod);
19    }
20    public String get_brand() {
21        return brand;
22    }
23    public int get_warrantyPeriod() {
24        return warrantyPeriod;
25    }
26
27 }
28
```

```
1 package ecommercesystem;
2 public class ClothingProduct extends Product {
3     private String size;
4     private String fabric;
5     public ClothingProduct() {}
6     public ClothingProduct(int productId, String name, float price, String size, String fabric) {
7         super(productId, name, price);
8         this.size = size;
9         this.fabric = fabric;
10    }
11    public void set_size(String size) {
12        this.size = size;
13    }
14    public void set_fabric(String fabric) {
15        this.fabric = fabric;
16    }
17    public String get_size() {
18        return size;
19    }
20    public String get_fabric() {
21        return fabric;
22    }
23 }
24
```



```
1 package ecommercesystem;
2 public class BookProduct extends Product {
3     private String author;
4     private String publisher;
5     public BookProduct() {}
6     public BookProduct(int productId, String name, float price, String author, String publisher) {
7         super(productId, name, price);
8         this.author = author;
9         this.publisher = publisher;
10    }
11    public void set_author(String author) {
12        this.author = author;
13    }
14    public void set_publisher(String publisher) {
15        this.publisher = publisher;
16    }
17    public String get_author() {
18        return author;
19    }
20    public String get_publisher() {
21        return publisher;
22    }
23 }
24
```

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

280.5/328.0MB

Start Page X EcommerceSystem.java X Product.java X ElectronicProduct.java X ClothingProduct.java X Book

Source History

```
1 package ecommercesystem;
2 import javax.swing.JOptionPane;
3 public class Cart {
4     private int customerId;
5     private int nProducts;
6     Product[] products=new Product[nProducts];
7     public Cart (){}
8     public Cart ( int size){
9         nProducts=size;
10        this.products = new Product[size];
11    }
12    public Cart(int customerId,int nProducts,Product[]products){
13        this.customerId=customerId;
14        this.nProducts=nProducts;
15        this.products=products;
16    }
17    public void set_customerId(int customerId){
18        if(customerId>0)
19            this.customerId=customerId;
20        else
21            this.customerId=Math.abs(a: customerId);
22    }
23    public void set_nProducts(int nProducts){
24        if(nProducts>0)
25            this.nProducts=nProducts;
26        else
27            this.nProducts=Math.abs(a: nProducts);
28        products = new Product[nProducts];
29    }
30    public void set_products (Product[]products){
31        this.products=products;
```



```

33 public int get_customerId() {
34     return customerId;
35 }
36 public int get_nProducts() {
37     return this.nProducts;
38 }
39 public Product[] get_products() {
40     return this.products;
41 }
42 public Product[] addProduct(Product p) {
43     for (int i = 0; i < nProducts; i++) {
44         if (products[i] == null) {
45             products[i] = p;
46             break;
47         }
48     }
49     return products;
50 }
51 public void removeProduct(Product productToRemove) {
52     // Find the index of the product to remove
53     int indexToRemove = -1;
54     for (int i = 0; i < nProducts; i++) {
55         if (products[i].get_productId() == productToRemove.get_productId()) {
56             indexToRemove = i;
57             break;
58         }
59     }
60     // If the product is found, remove it by shifting the remaining products
61     if (indexToRemove != -1) {
62         for (int i = indexToRemove; i < nProducts - 1; i++) {
63             products[i] = products[i + 1];

```

```

61     if (indexToRemove != -1) {
62         for (int i = indexToRemove; i < nProducts - 1; i++) {
63             products[i] = products[i + 1];
64         }
65         nProducts--;
66         products[nProducts] = null; // Set the last element to null to avoid memory leaks
67         System.out.println(x: "Product removed successfully!");
68     } else {
69         System.out.println(x: "Product not found in the cart.");
70     }
71 }
72
73 public float calculatePrice() {
74     float totalPrice = 0;
75     for (int i = 0; i < nProducts; i++) {
76         if (products[i] != null) {
77             totalPrice += products[i].get_price();
78         }
79     }
80     return totalPrice;
81 }
82
83 public void placeOrder(boolean u) {
84     if(u==true) {
85         JOptionPane.showMessageDialog(parentComponent: null, message: "your Order had been Placed successfully");
86         // System.out.println("your Order had been Placed successfully");
87     }
88     else{
89         JOptionPane.showMessageDialog(parentComponent: null, message: "No Order had been Placed");
90         products=null;}
91 }

```

```
1 package ecommerceSystem;
2 public class Customer {
3     private int customerId;
4     private String name;
5     private String address;
6     public Customer() {}
7     public Customer(int customerId, String name, String address) {
8         this.customerId = Math.abs(a: customerId);
9         this.address = address;
10        this.name = name;
11    }
12    public void set_customerId(int customerId) {
13        if (customerId > 0)
14            this.customerId = customerId;
15        else
16            this.customerId = Math.abs(a: customerId);
17    }
18    public void set_name(String name) {
19        this.name = name;
20    }
21    public void set_address(String address) {
22        this.address = address;
23    }
24    public int get_customerId() {
25        return customerId;
26    }
27    public String get_name() {
28        return name;
29    }
30    public String get_address() {
31        return address;
32    }
```



```
1 package ecommercesystem;
2 public class Order {
3     private int customerId;
4     private int orderId;
5     Product[] products;
6     private float totalPrice;
7     public Order () {}
8     public Order(int customerId, int orderId, Product[] products, float totalPrice) {
9         this.customerId = Math.abs(a: customerId);
10        this.orderId = Math.abs(a: orderId);
11        this.products = products;
12        this.totalPrice = Math.abs(a: totalPrice);
13    }
14    public void printOrderInfo () {
15        System.out.println(x: "Here's your order summary:");
16        System.out.println("Order ID: "+orderId);
17        System.out.println("Costumer ID: "+customerId);
18        System.out.println(x: "Products:");
19        for(int i=0;i<products.length;i++){
20            System.out.println("    "+products[i].get_name()+"- $" +products[i].get_price());
21        }
22        System.out.println("Total Price: $" +totalPrice);
23    }
24 }
25
```

Message



Welcome to the E-Commerce System!

OK

Input



Please enter your ID

23011165

OK

Cancel

Input



Please enter your name

menna_mohamed

OK

Cancel

Input



Please enter your address

Montazah

OK

Cancel

Input



How many products you want to add to your cart?

4

OK

Cancel

Input



which product you would like to add? 1-Smartphone 2-T-shirt 3-OOP

2

OK

Cancel

Input



which product you would like to add? 1-Smartphone 2-T-shirt 3-OOP

3

OK

Cancel

Input



which product you would like to add? 1-Smartphone 2-T-shirt 3-OOP

2

OK

Cancel

Input



which product you would like to add? 1-Smartphone 2-T-shirt 3-OOP

1

OK

Cancel

Input



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

1

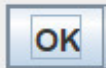
OK

Cancel

Message



your Order had been Placed successfully



run:

Here's your order summary:

Order ID: 1

Costumer ID: 23011165

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 26 seconds)

||