

```
public class Product {
       this.price = Math.abs(price);
       this.productId = Math.abs(productId);
```

```
public class ElectronicProduct extends Product {
    private String brand;
    private int warrantyPeriod;

    public ElectronicProduct(int productId, String name, double price, String brand, int
    warrantyPeriod) {
        super(productId, name, price);
        this.brand = brand;
        this.warrantyPeriod = Math.abs(warrantyPeriod);
    }

    public String getBrand() {
        return brand;
    }

    public void setBrand(String brand) {
        this.brand = brand;
    }

    public int getWarrantyPeriod() {
        return warrantyPeriod;
    }

    public void setWarrantyPeriod(int warrantyPeriod) {
        this.warrantyPeriod = Math.abs(warrantyPeriod);
    }
}
```

```
public class ClothingProduct extends Product {
    private String size;
    private String fabric;

public ClothingProduct(int productId, String name, double price, String size, String fabric) {
        super(productId, name, price);
        this.size = size;
        this.fabric = fabric;
    }

public String getSize() {
        return size;
    }

public void setSize(String size) {
        this.size = size;
    }

public String getFabric() {
        return fabric;
    }

public void setFabric(String fabric) {
        this.fabric = fabric;
    }
```

```
public class BookProduct extends Product {
public class Customer {
       this.address = address;
   public void setAddress(String address) {
```

```
public class Cart {
   public void setCustomerId(int customerId) {
            this.customerId = Math.abs(customerId);
            JOptionPane.showMessageDialog(null, "Product is add to the cart");
            JOptionPane.showMessageDialog(null, "Can't add the product, because the cart is full ");
   public void removeProduct(Product product) {
            if (products[i] == product) {
```

```
import javax.swing.*;

public class Order extends Cart{
    private int orderId =1;
    private float totalPrice = calculatePrice(getProducts());

public int Order(){
        return orderId++;
    }

public int getOrderId() {
        return orderId;
    }

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

public float getTotalPrice() {
        return totalPrice;
    }

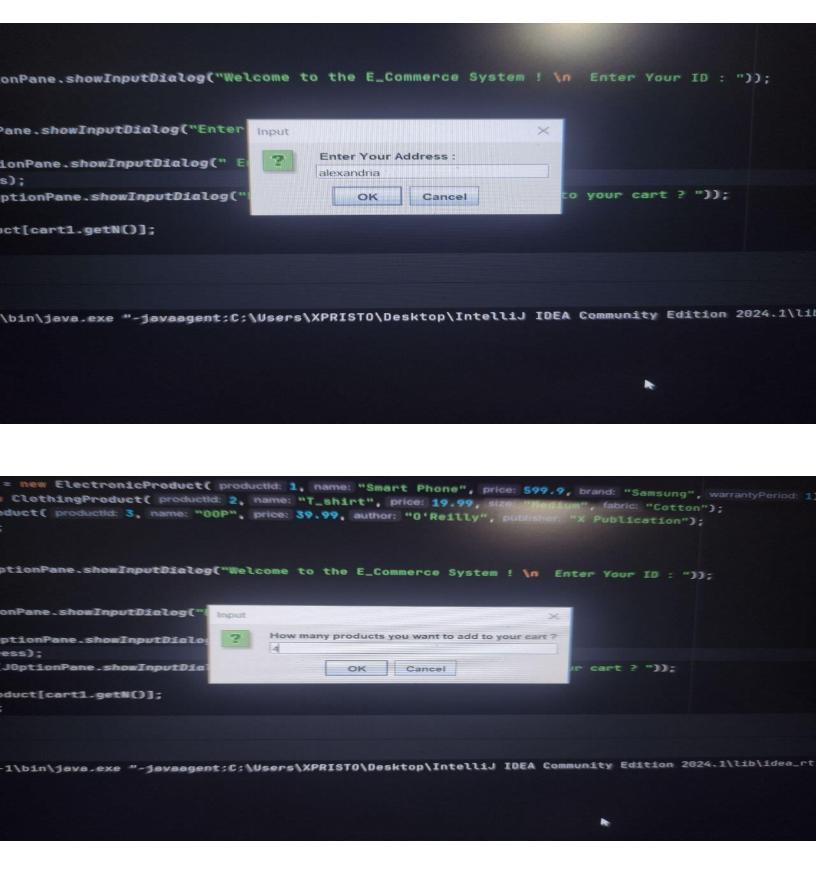
public void setTotalPrice(float totalPrice) {
        this.totalPrice =Math.abs(totalPrice);
    }

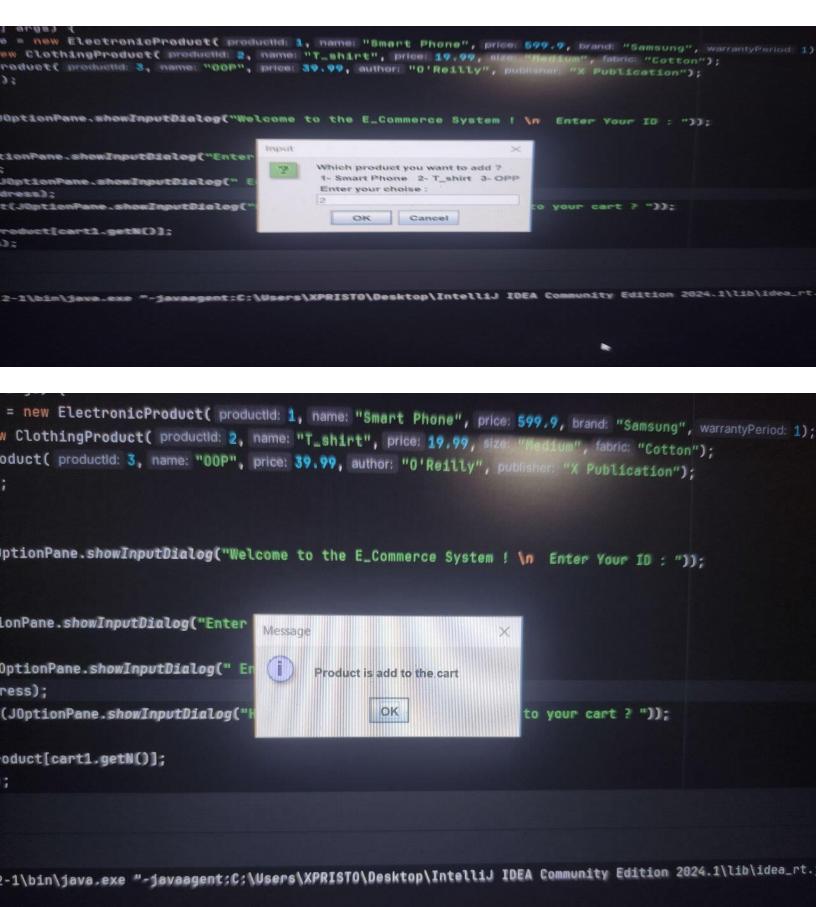
public void printOrderInfo(Cart cart) {
        JOptionPane.showWessageDialog(null,"Order ID : "+getOrderId());
        cart.placeOrder();
}
```

```
public class EcommerceSystem {
       int id = Integer.parseInt(JOptionPane.showInputDialog("Welcome to the E Commerce System ! \n
       c1.setCustomerId(id);
       cart1.setCustomerId(id);
       String cuustumer name =JOptionPane.showInputDialog("Enter Your Name : ");
       c1.setName(cuustumer name);
       String cuustumer address = JOptionPane.showInputDialog(" Enter Your Address: ");
       c1.setAddress(cuustumer address);
       int num1 = Integer.parseInt(JOptionPane.showInputDialog("How many products you want to add to
       cart1.setProducts(products);
            int num2 = Integer.parseInt(JOptionPane.showInputDialog("Which product you want to add ?")
               case 1:cart1.addProduct(smartPhone);
                case 2:cart1.addProduct(T shirt);
       JOptionPane.showMessageDialog(null, "Your Total Price is
"+cart1.calculatePrice(cart1.getProducts()));
       int num3 =Integer.parseInt(JOptionPane.showInputDialog("Would you want to place order? \n 1-
```

```
duct( productld: 3, name: "00P", price: 39.99, author: "0'Re1lly", publisher: "X Publication");
otionPane.showInputDialog("Welcome to the E_Commerce System ! \n Enter Your ID : "))
                                  Input
onPane.showInputDialog("Ente
                                         Welcome to the E_Commerce System !
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                                          Enter Your ID:
ress);
                                         23011184
(JOptionPane.showInputDialog(
                                                                            your cart ? "));
                                               OK
                                                       Cancel
oduct[cart1.getN()];
2-1\bin\java.exe "-javaagent:C:\Users\XPRISTO\Desktop\IntelliJ IDEA Community Edition 2024.
ng[] args) {
none = new ElectronicProduct( productld: 1, name: "Smart Phone", price: 599.9, brand: "Samsung", warran
= new ClothingProduct( productld: 2, name: "T_shirt", price: 19.99, size: "Medium", fabric: "Cotton");
okProduct( productld: 3, name: "00P", price: 39.99, author: "0'Reilly", publisher: "X Publication");
er();
t(JOptionPane.showInputDialog("Welcome to the E_Commerce System ! \n Enter Your ID : "));
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ne);
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                                           yamen aboelnga
_address);
eInt(JOptionPane.showInputDialog("
                                               OK
                                                                      to your cart ? "));
                                                      Cancel
w Product[cart1.getN()];
cts);
```

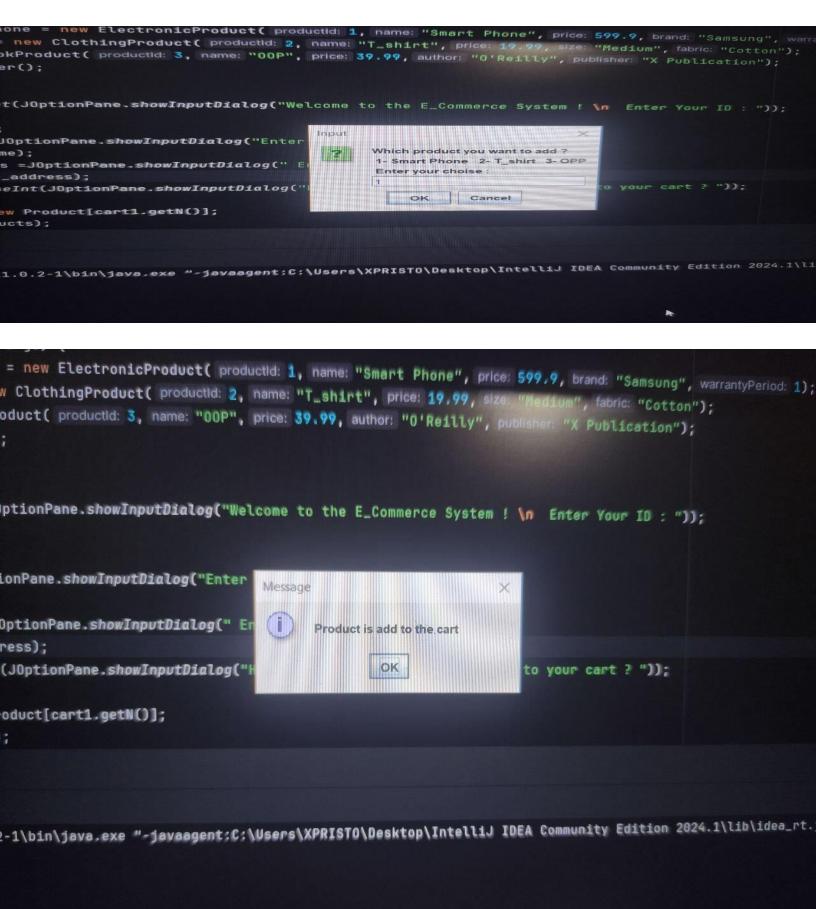
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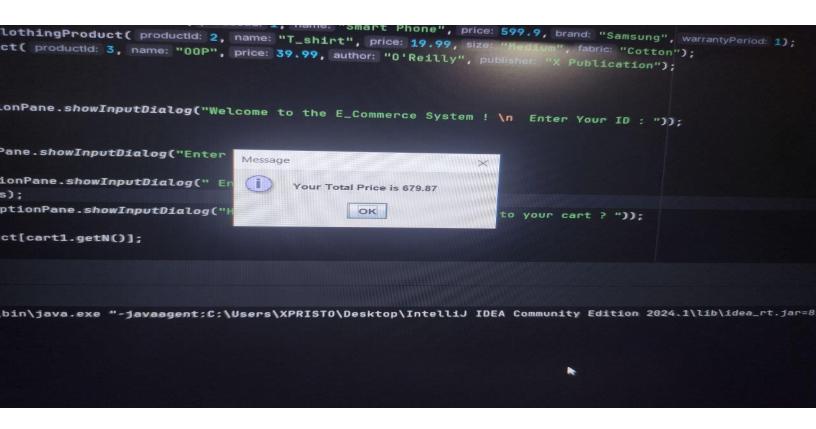


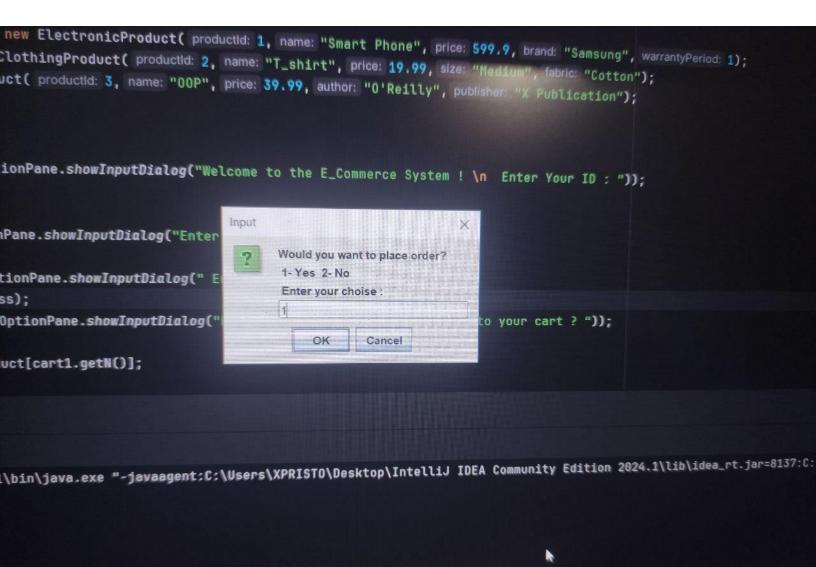


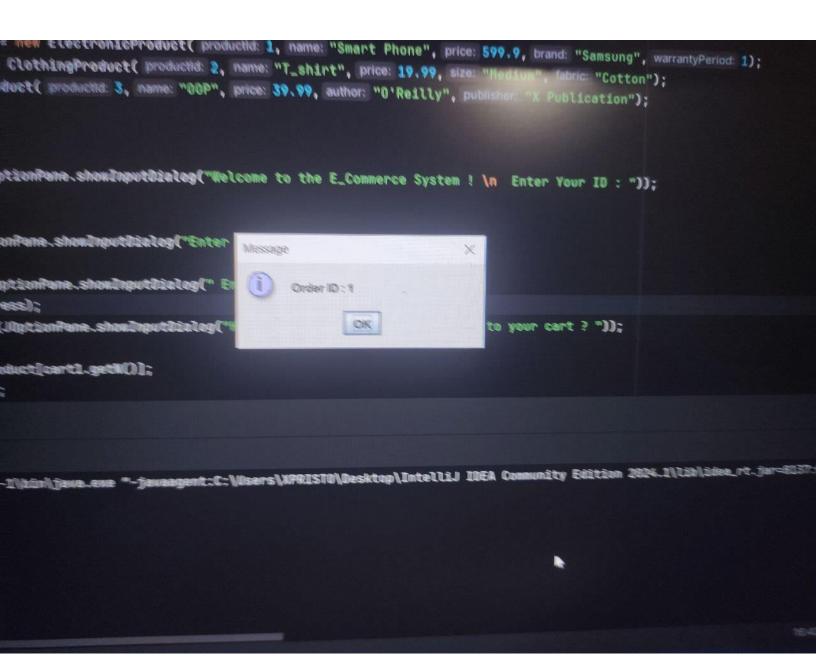
```
= new ElectronicProduct( productld: 1, name: "Smart Phone", price: 599.9, brand: "Samsung", warrantyPeriod: 1);
ClothingProduct( productid: 2, name: "T_shirt", price: 19.99, size: "Medium",
oduct( productid: 3, name: "OOP", price: 39.99, author: "O'Reilly", publisher: "X Publication");
ptionPane.showInputDialog("Welcome to the E_Commerce System ! \n Enter Your ID : "));
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ptionPane.showInputDialog(" E
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ess);
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                                                                      o your cart ? ")):
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oduct[cart1.getN()];
-1\bin\java.exe "-javaagent:C:\Users\XPRISTO\Desktop\IntelliJ IDEA Community Edition 2024.1\lib\idea_rt.ja
= new ElectronicProduct( productld: 1, name: "Smart Phone", price: 599.9, brand: "Samsung", warrantyPeriod: 1);
w ClothingProduct( productid: 2, name: "T_shirt", price: 19.99, size: "Medium", fabric: "Cotton");
oduct( productid: 3, name: "OOP", price: 39.99, author: "O'Reilly", publisher: "X Publication");
ptionPane.showInputDialog("Welcome to the E_Commerce System ! \n Enter Your ID : "));
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ress):
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                                                                      to your cart ? "));
oduct[cart1.getN()];
-1\bin\java.exe "-javaagent:C:\Users\XPRISTO\Desktop\IntelliJ IDEA Community Edition 2024.1\lib\idea_rt.
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```
e = new ElectronicProduct( productid: 1, name: "Smart Phone", price: 599.9, brand: "Samsung", warrantyPeriod: 1)
ew ClothingProduct( producted: 2, name: "T.shirt", price: 19.99, size: "Medium", fabric: "Cotton"); roduct( producted: 3, name: "00p", price: 39.99, author: "0'Reilly", publisher: "X Publication");
OptionPane.showInputDialog("Welcome to the E_Commerce System ! \n Enter Your ID : ")):
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tionPane.showInputDialog("Enter
JOptionPane.showInputDialog(" |
                                             1- Smart Phone 2- T_shirt 3- OPP
                                             Enter your choise:
t(JOptionPan
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roduct[cert1.getN()];
2-1\bim\java.exe "-javaagent:C:\Users\XPRISTO\Desktop\IntelliJ IDEA Community Edition 2024.1\lib\id
= new ElectronicProduct( productld: 1, name: "Smart Phone", price: 599.9, brand: "Samsung", warrantyPeriod: 1);
w ClothingProduct( producted: 2, name: "T_shirt", price: 19.99, size: "Medium", fabric: "Cotton");
oduct( productid: 3, name: "00P", price: 39.99, author: "0'Reilly", publisher: "X Publication");
ptionPane.showInputDialog("Welcome to the E_Commerce System ! \n Enter Your ID : "));
ionPane.showInputDialog("Enter
                                     Message
OptionPane.showInputDialog(" En
                                            Product is add to the cart
ress);
(JOptionPane.showInputDialog("H
                                                      OK
                                                                          to your cart ? "));
oduct[cart1.getN()];
-1\bin\java.exe "-javaagent:C:\Users\XPRISTO\Desktop\IntelliJ IDEA Community Edition 2024.1\lib\idea_rt.
```









```
othingProduct( productid: 2, name: "T_shirt", price: 19.99, size: "Medium", fabric: "Cotton");
t( productld: 3, name: "OOP", price: 39.99, author: "O'Reilly", publisher: "X Publication");
onPane.showInputDialog("Welcome to the E_Commerce System ! \n Enter Your ID : "));
                               Message
ane.showInputDialog("Enter
                                      Product ID: 2
                                      Product Name: T_shirt
lonPane.showInputDialog(" En
                                      Product Price: 19.99
5);
                                      Total Pricce: 679.87
                                                                  to your cart ? "));
ptionPane.showInputDialog("H
                                               OK
ct[cart1.getN()];
bin\java.exe "-javaagent:C:\Users\XPRISTO\Desktop\IntelliJ IDEA Community Edition 2024.1\lib\idea_rt.jar=8137:C:
                                                                            k
```

