

```

import javax.swing.*;
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        Scanner input= new Scanner(System.in);
        System.out.println("Welcome");
        ElectronicProduct e1= new
ElectronicProduct(1,"Smartphone",599.9f,"Samsung",1);
        ClothingProduct c1=new ClothingProduct(2,"T-shirt",19.99f,"Meduim","Cotton");
        BookProduct b1= new BookProduct(3,"OOP",39.99f,"O'Reilly","X Publications");
        System.out.println("Enter your id");
        int id=input.nextInt();
        System.out.println("Enter your Name");
        String name= input.next();
        System.out.println("Enter your address");
        String add=input.next();
        Customer customer1= new Customer(id,name,add);
        System.out.println("How many products you want to order");
        int n=input.nextInt();
        Cart cart = new Cart(id,n);
while (cart.num!=n){
    System.out.println("1.Smartphone");
    System.out.println("2.T-shirt");
    System.out.println("3.OOP");
    System.out.println("Choose the product you want from the above products");
    int z= input.nextInt();
    switch (z){
        case 1:
            cart.addProduct(e1);
            break;
        case 2:
            cart.addProduct(c1);
            break;
        case 3:
            cart.addProduct(b1);
            break;
        default:
            System.out.println("You choosed a wrong number");
    }
}
System.out.println("If you want to place the order Press 1 else Press 0");
int placingorder= input.nextInt();
switch (placingorder){
    case 1:
        Order order1 = new Order(id,card.CalculatePrice(),1, cart.getProducts());
        System.out.println("Thank you for visiting us");
        System.out.println("Here is your order Detalis");
        order1.printinfo();
        break;
    case 0:
        System.out.println("Thank you for visiting us");
        break;
}
}

```

```

//GUI!

//      int
custid2=Integer.parseInt(JOptionPane.showInputDialog(null,"Enter your
ID","Ecommerce System",3));
//      String name2=JOptionPane.showInputDialog(null,"Enter your
Name","Ecommerce System",3);
//      String add2 = JOptionPane.showInputDialog(null,"Enter your
Address","Ecommerce System",3);
//      Customer customer2= new Customer(custid2,name2,add2);
//      int num2=Integer.parseInt(JOptionPane.showInputDialog(null,"How
many Products you want to order","Ecommerce System",3));
//      Cart cart2= new Cart(custid2,num2);
//      String[] names = {e1.getName(),b1.getName(),c1.getName()};
//      for (int i=0;i<num2;i++) {
//          int z2 = JOptionPane.showOptionDialog(null, "Choose the product
you want", "Ecommerce System", JOptionPane.YES_NO_CANCEL_OPTION, 3,null,
names, null);
//          switch (z2) {
//              case 0:
//                  cart2.addProduct(e1);
//                  break;
//              case 1:
//                  cart2.addProduct(c1);
//                  break;
//              case 2:
//                  cart2.addProduct(b1);
//                  break;
//          }
//      }
//      int placing2=JOptionPane.showOptionDialog(null, "Would you like to
place an order", "Ecommerce System", JOptionPane.YES_NO_OPTION, 0,image,
null, null);
//      switch (placing2){
//          case 0:
//              Order order2= new Order(custid2,card2.CalculatePrice(),1,
card2.getProducts());
//              order2.printlnfo();
//              break;
//          case 1:
//              JOptionPane.showMessageDialog(null,"Thank you for visiting
us","Ecommerce System",JOptionPane.PLAIN_MESSAGE);
//              break;
//      }
}
}

```

```
public class Product {
    int productid;
    String name;
    float 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 setPrice(float price) {
        this.price = Math.abs(price);
    }

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

class ElectronicProduct extends Product{
    String brand;
    int 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 ElectronicProduct(int productid, String name, float price, String
brand, int warrantyperiod) {
            super(productid, name, price);
            this.brand = brand;
            this.warrantyperiod = Math.abs(warrantyperiod);
        }
    }
}

class ClothingProduct extends Product{
    String size;
    String 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 ClothingProduct(int productid, String name, float price, String
size, String fabric) {
        super(productid, name, price);
        this.size = size;
        this.fabric = fabric;
    }
}

class BookProduct extends Product{
    String author;
    String 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;
    }
}
```

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

```
public class Customer {
    int customerid;
    String name;
    String 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;
    }

    public void setAddress(String address) {
        this.address = address;
    }

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

```

public class Cart {
    int custemorid;
    int nProducts;
    Product[] Products;

    public int getCustemorid() {
        return custemorid;
    }

    public void setCustemorid(int custemorid) {
        this.custemorid = Math.abs(custemorid);
    }

    public int getnProducts() {
        return nProducts;
    }

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

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

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

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

    int num=0;

    public void addProduct(Product p){
        Products[num]=p;
        num++;
    }

    public void removeProduct(Product p){
        for(int i=0;i<Products.length;i++){
            if(Products[i]==p){
                Products[i]=null;
            }
        }
    }

    float totalprice=0.0f;
    public float CalculatePrice(){
        for (Product p: Products){
            totalprice+=p.getPrice();
        }
        return totalprice;
    }
}

```

```

    public void Placeorder() {
        Order o1= new Order(custemorid,totalprice,1,Products);
    }
}

import javax.swing.*;

public class Order {
    int customerid;
    int orderid;
    Product[] products;
    float totalprice;

    public int getCustomerid() {
        return customerid;
    }

    public void setCustomerid(int customerid) {
        this.customerid = Math.abs(customerid);
    }

    public int getOrderid() {
        return orderid;
    }

    public void setOrderid(int orderid) {
        this.orderid = Math.abs(orderid);
    }

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

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

    public float getTotalprice() {
        return totalprice;
    }

    public void setTotalprice(float totalprice) {
        this.totalprice = Math.abs(totalprice);
    }

    public Order(int customerid ,float totalprice, int orderid , Product[]
products){
        this.customerid=Math.abs(customerid);
        this.orderid=Math.abs(orderid);
        this.products=products;
        this.totalprice=totalprice;
    }
}

```

```

public void printinfo(){
    System.out.println("Customer ID: "+customerid);
    System.out.println("Order ID: "+orderid);
    for (Product p :products){
        System.out.println(p.getName()+":"+p.getPrice()+"$");
    }
    System.out.println("Total Price : "+totalprice+"$");
}

//GUI
//    public void printinfo(){
//        String list="";
//        for(int i=0;i<products.length && products[i]!=null;i++){
//
//list+=products[i].getName()+":"+products[i].getPrice()+"$"+"\\n";
//        }
//        JOptionPane.showMessageDialog(null,"Customr ID:
//"+customerid+"\\n"+"Order ID: "+orderid+"\\n"+list+"Total Price:
//"+totalprice+"$");
//    }
}

```



```
Welcome
Enter your id
101
Enter your Name
Karim
Enter your address
Alex
How many products you want to order
4
1.Smartphone
2.T-shirt
3.OOP
Choose the product you want from the above products
2
1.Smartphone
2.T-shirt
3.OOP
Choose the product you want from the above products
1
1.Smartphone
2.T-shirt
3.OOP
Choose the product you want from the above products
3
1.Smartphone
2.T-shirt
3.OOP
Choose the product you want from the above products
1
If you want to place the order Press 1 else Press 0
1
Thank you for visiting us
Here is your order Details
Customer ID: 101
Order ID: 1
T-shirt:19.99$
Smartphone:599.9$
OOP:39.99$
Smartphone:599.9$
Total Price : 1259.78$

Process finished with exit code 0
|
```

Ecommerce System

Enter your ID

502

OK Cancel

Ecommerce System

Choose the product you want

Smartphone OOP T-shirt

Ecommerce System

Enter your Name

Karim

OK Cancel

Ecommerce System

Choose the product you want

Smartphone OOP T-shirt

Ecommerce System

Enter your Address

Alex

OK Cancel

Ecommerce System

Choose the product you want

Smartphone OOP T-shirt

Ecommerce System

How many Products you want to order

3

OK Cancel

Ecommerce System

Would you like to place an order

Yes No

Ecommerce System

Thank you for visiting us

Your order details

Customr ID: 502

Order ID: 1

Smartphone:599.9\$

T-shirt:19.99\$

OOP:39.99\$

Total Price: 659.88\$

OK

Done By: Karim Nabil
Hassan Mohamed (AI)

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