

product.java

ElectronicPr...

ClothingProd...

BookP...

```
1 package programming;
2
3 public class product {
4     private int productId;
5     private String name;
6     private float price;
7     public product(int productId, String name, float price) {
8         this.productId = productId;
9         this.name = name;
10        this.price = price;
11    }
12    public int getProductId() {
13        return productId;
14    }
15    public void setProductId(int productId) {
16        if(productId>=0) {
17            this.productId = productId;
18        }
19        else {
20            this.productId=Math.abs(productId);
21        }
22    }
23    public String getName() {
24        return name;
25    }
26    public void setName(String name) {
27        this.name = name;
28    }
29    public float getPrice() {
30        return price;
31    }
32    public void setPrice(float price) {
33        if(price>=0)
34            this.price = price;
35        else
36            this.price=Math.abs(price);
37    }
38
39 }
40
41 |
```

```
1 package programming;
2
3 public class ElectronicProduct extends product{
4     private String brand;
5     private int WarrantlyPeriod;
6     public ElectronicProduct(int productId, String name, float price, String brand, int warrantlyPeriod)
7         super(productId, name, price);
8         this.brand = brand;
9         WarrantlyPeriod = warrantlyPeriod;
10    }
11    public String getBrand() {
12        return brand;
13    }
14    public void setBrand(String brand) {
15        this.brand = brand;
16    }
17    public int getWarrantlyPeriod() {
18        return WarrantlyPeriod;
19    }
20    public void setWarrantlyPeriod(int warrantlyPeriod) {
21        if( WarrantlyPeriod>=0)
22            WarrantlyPeriod = warrantlyPeriod;
23        else
24            this.WarrantlyPeriod=Math.abs(warrantlyPeriod);
25    }
26
27 }
28
```

```
product.java  ElectronicPr...  ClothingProd...  BookProduct...  cart.java  order.java  EcommerceSy.  
1 package programming;  
2  
3 public class ClothingProduct extends product{  
4     private String size;  
5     private String fabric;  
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 String getSize() {  
12        return size;  
13    }  
14    public void setSize(String size) {  
15        this.size = size;  
16    }  
17    public String getFabric() {  
18        return fabric;  
19    }  
20    public void setFabric(String fabric) {  
21        this.fabric = fabric;  
22    }  
23  
24 }  
25
```

```
product.java  ElectronicPr...  ClothingProd...  BookProduct...  cart.java  order.java  Ecommerce
1 package programming;
2
3 public class BookProduct extends product{
4     private String author;
5     private String publisher;
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 String getAuthor() {
12        return author;
13    }
14    public void setAuthor(String author) {
15        this.author = author;
16    }
17    public String getPublisher() {
18        return publisher;
19    }
20    public void setPublisher(String publisher) {
21        this.publisher = publisher;
22    }
23
24}
25
```

```
1 package programming;
2
3 public class cart {
4     private int customerId;
5     private int nProduct;
6     private int i=0;
7     private product [] products;
8     public cart(int customerId, int nProduct) {
9         this.customerId = customerId;
10        this.nProduct = nProduct;
11        products = new product[nProduct];
12    }
13    public int getCustomerId() {
14        return customerId;
15    }
16    public void setCustomerId(int customerId) {
17        this.customerId = customerId;
18    }
19    public int getnProduct() {
20        return nProduct;
21    }
22    public void setnProduct(int nProduct) {
23        this.nProduct = nProduct;
24    }
25    public product[] getProducts() {
26        return products;
27    }
28    public void setProducts(product[] products) {
29        this.products = products;
30    }
31    public void addProduct(product element) {
32        products[i]=element;
33        i++;
34    }
35    public void removeProduct(int index) {
36        if(index>=0&&index<nProduct) {
37            for(int i=index;i<nProduct-1;i++) {
38                products[i]=products[i+1];
39            }
40            nProduct--;
41            products[nProduct]=null;
42        }
43        else {
44            System.out.println("invalid index try again");
45        }
46    }
47    public float calculatePrice() {
48        float sum=0f;
49        for(int i=0;i<nProduct;i++) {
50            sum+=products[i].getPrice();
51        }
52        return sum;
53    }
54    public void placeOrder() {
55        order ord=new order(customerId,123,products,calculatePrice());
56        ord.printOrderInfo();
57    }
58}
```

```
product.java ElectronicPr... ClothingProd... BookProduct... cart.java order.java x EcommerceSy... customer.java
```

```
1 package programming;
2
3 public class order {
4     private int customerId;
5     private int orderId;
6     private product[] products2;
7     private float totalPrice;
8     public order(int customerId, int orderId, product[] products2, float totalPrice) {
9         super();
10        this.customerId = customerId;
11        this.orderId = orderId;
12        this.products2 = products2;
13        this.totalPrice = totalPrice;
14    }
15    public void printProducts() {
16        for(int i=0;i<products2.length;i++) {
17            System.out.println(products2[i].getName()+"_"+products2[i].getPrice());
18        }
19    }
20    public void printOrderInfo() {
21        System.out.println("here is your order summary:"+`\norderId:"+orderId+
22                           "\ncustomerId:"+customerId+"\nproducts:");
23        printProducts();
24        System.out.println("total price:"+totalPrice);
25    }
26}
27
```

```
product.java  ElectronicPr... ClothingProd... BookProduct... cart.java order.java Ecommerce
> programming

 2 import java.util.Scanner;
 3
 4 public class EcommerceSystem {
 5     public static void main(String[] args) {
 6         Scanner input=new Scanner(System.in);
 7         ElectronicProduct s1=new ElectronicProduct(1,"smart phone",599.9f,"samsung",1);
 8         ClothingProduct s2=new ClothingProduct(2,"t-shirt",19.99f,"medium","cotton");
 9         BookProduct s3=new BookProduct(3,"OOP",39.99f,"O'Reilly","X Publications");
10         System.out.println("welcome to ecommerce system!");
11         System.out.println("please enter your id");
12         int id=input.nextInt();
13         if(id<0) {
14             id=Math.abs(id);
15             System.out.println("please enter your name");
16             String name=input.next();
17             System.out.println("please enter your address");
18             String address=input.next();
19             customer cl=new customer(id,name,address);
20             System.out.println("how many products do you want?");
21             int nProduct=input.nextInt();
22             cart rl=new cart(id,nProduct);
23             for(int i=0;i<nProduct;i++) {
24                 System.out.println("which product do you like to add?");
25                 System.out.println("1-smart phone\n2-t-shirt\n3-OOP");
26                 int number=input.nextInt();
27                 switch (number) {
28                     case 1:
29                         rl.addProduct(s1);
30                         break;
31                     case 2:
32                         rl.addProduct(s2);
33                         break;
34                     case 3:
35                         rl.addProduct(s3);
36                         break;
37                     default:
38                         System.out.println("invalid no");
39                 }
40             }
41             System.out.println("your total is "+rl.calculatePrice());
42             System.out.println("would you like to place order?"+ "\n1-yes \n2-no");
43             int order=input.nextInt();
44             switch (order) {
45                 case 1:
46                     rl.placeOrder();
47                     break;
48                 case 2:
49                     break;
50                 default:
51                     System.out.println("invalid no");
52             }
53         }
54     }
55 }
```

```
product.java ElectronicPr... ClothingProd... BookProduct... cart.java order.java EcommerceSy...
programming
1 package programming;
2
3 public class customer {
4     private int customerId;
5     private String name;
6     private String address;
7     public customer(int customerId, String name, String address) {
8         super();
9         this.customerId = customerId;
10        this.name = name;
11        this.address = address;
12    }
13    public int getCustomerId() {
14        return customerId;
15    }
16    public void setCustomerId(int customerId) {
17        if(customerId>=0)
18            this.customerId = customerId;
19        else
20            this.customerId=Math.abs(customerId);
21    }
22    public String getName() {
23        return name;
24    }
25    public void setName(String name) {
26        this.name = name;
27    }
28    public String getAddress() {
29        return address;
30    }
```

Console X

```
<terminated> EcommerceSystem [Java Application] C:\Program Files\Java\jre1.8.0_131\bin\javaw.exe
welcome to ecommerce system!
please enter your id
-23012044
please enter your name
rodina
please enter your address
address
how many products do you want?
3
which product do you like to add?
1-smart phone
2-t-shirt
3-OOP
1
which product do you like to add?
1-smart phone
2-t-shirt
3-OOP
2
which product do you like to add?
1-smart phone
2-t-shirt
3-OOP
3
your total is 659.88
```



Search



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Console x

<terminated> EcommerceSystem [Java Application] C:\Program Files\Java\j

3-OOP
1
which product do you like to add?
1-smart phone
2-t-shirt
3-OOP
2
which product do you like to add?
1-smart phone
2-t-shirt
3-OOP
3
your total is 659.88
would you like to place order?
1-yes 2-no
1
here is your order summary:
orderID:123
customerId:23012044
products:
smart phone_599.9
t-shirt_19.99
OOP_39.99
total price:659.88



Search

