```
import java.util.Scanner;
public class EcommerceSystem!
public static void main(String[] args){

Scanner input = new Scanner(System.in);

ElectronicProduct elc = new ElectronicProduct[ productd 1, name "smartphone", price 599.96, brand "Samsung", warrantyPeriod; 1);
ClothingProduct elc = new ElectronicProduct[ productd 2, name "T-shirt", price 19.996, size "Nedium", fabric: "Cotton");
BookProduct book = new BookProduct[ productd 3, name "ODP", price 39.996, size "Nedium", fabric: "Cotton");
System.aut.println("Welcome to the E-commerce System!");
System.aut.println("Entre your ID");
int id = input.nextInt();
System.aut.println("Entre your name");
String name = input.nextLine();
System.aut.println("Entre your name");
String address = input.nextLine();
Customer customer = new Customer(id,name,address);

System.aut.println("Now many Products do you want to add to your cart");
int size = input.nextInt();
Cart cart = new Cart(customer.getGustomerId(),size);
for (int i = 0; i <aircinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerinclerincleri
```

```
switch(productid){
    case 1:
        product = new ElectronicProduct( productid: 1, name: "Smartphone", price: 599.9f, brand: "Samsung", warrantyPeriod: 1);
        break;
    case 2:
        product = new ClothingProduct( productid: 2, name: "T-shirt", price: 19.99f, size: "Medium", fabric: "Cotton");
        break;
    case 3:
        product = new BookProduct( productid: 3, name: "GOP", price: 39.99f, author: "G'Reilly", publisher: "X Publications");
        break;
    default:
        System.out.println("error, try again");
        i--;
        continue;
}
system.out.println("Your total is " + cart.calculatePrice() + ". Would you like to place your order? 1- Yes 2- No");
int choice = input.nextInt();
if (choice ==1){
        System.out.println("Here is your order summary");
        Onder odr = new Order(id, ordered: 1, cart.getProducts(), (float)cart.calculatePrice());
        odr.printlnderInfo();
}
}
```

```
Stass ElectronicProduct extends Product(

3 usages

String brand;
3 usages

int warrantyPeriod;

2 usages

public ElectronicProduct(int productId, String name, float price, String brand, int warrantyPeriod) {

super(productId, name, price);
this.brand = brand;
this.warrantyPeriod = Math.abs(warrantyPeriod);
}

no usages

public String getBrand() {

return brand;
}

no usages

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

no usages

public int getWarrantyPeriod() {

return warrantyPeriod;
}

no usages

public int getWarrantyPeriod() {

return warrantyPeriod;
}

no usages

public int getWarrantyPeriod() {

return warrantyPeriod;
}
```

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

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

```
} class BookProduct extends Product{
3 usages
String author;
3 usages
String publisher;

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

no usages
public String getAuthor() {
    return author;
}

no usages
public void setAuthor(String author) {
    this.author = author;
}

no usages
public String getPublisher() {
    return publisher;
}
```

```
no usages
public void setPublisher(String publisher) {
   this.publisher = publisher;
}
```

```
| class Customer {
| 3usages | int oustomerId; |
| 3usages |
| String name; |
| 3usages |
| String address; |
| 1usage | public Customer(int customerId, String name, String address) {
| this.customerId = Math.abs(customerId); |
| this.name = name; |
| this.address = address; |
| 1 usage | public int getCustomerId() {
| return customerId; |
| } |
| 10usages | public void setCustomerId(int customerId) {
| this.customerId = customerId; |
| this.cu
```

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

nousages

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

nousages

public String getAddress() {
    return address;
}

nousages

public String getAddress() {
    return address;
}

this.address = address;

Method 'getName()' is never used.

Method 'getName()' is neve
```

} class Cart{

```
public int getNProducts() {
    return nProducts;
}

no usages
public void setNProducts(int nProducts) {
    this.nProducts = Math.abs(nProducts);
}

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

1 usage
public void addProduct(Product product, int x) {
    if (x >= 0 && x < nProducts) {
        products[x] = product;
    } else {
        System.aut.println("wrong size");
    }
}
</pre>
```

```
public void removeProduct(int x) {
    if (x >= 0 && x < nProducts) {
        products[x] = null;
    } else {
        System.out.println("wrong size");
    }
}

2 usages
public double calculatePrice() {
    double totalPrice = 0;
    for (int i=0;i <nProducts;i++) {
        if (products[i] != null) {
            totalPrice += products[i].getPrice();
        }
    }
    return totalPrice;
}</pre>
```

```
Welcome to the E-commerce System!
Entre your ID
23010037
Entre your name
no men weel esmail elsherif
Entre your address
business
How many Products do you want to add to your cart
3
Which product do you want to add? 1- Smartphone 2- T-shirt 3- 00P
1
Which product do you want to add? 1- Smartphone 2- T-shirt 3- 00P
2
Which product do you want to add? 1- Smartphone 2- T-shirt 3- 00P
3
Your total is 659.8860258636475. Would you like to place your order? 1- Yes 2- No
1
Here is your order summary
Customer Id is 23010039, Order Id is 1
Product number 0 is ElectronicProduct@50100e6
Product number 1 is ColthingProduct@533ddba
Process finished with exit code 8
```