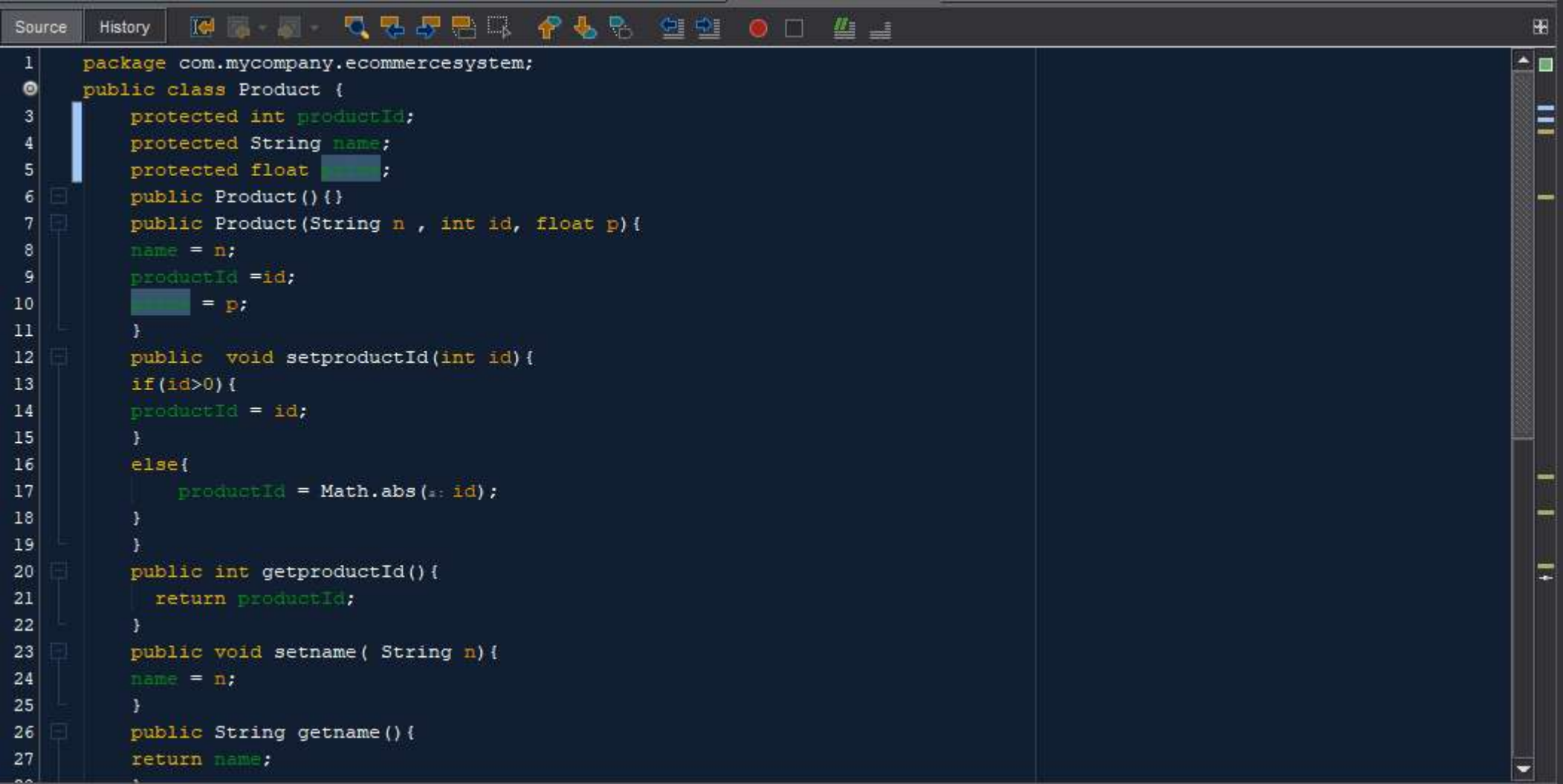```java
package com.mycompany.ecommercesystem;
import java.util.Scanner;
public class EcommerceSystem {
static Scanner input = new Scanner(source: System.in);
    public static void main(String[] args) {
        gui gi = new gui();
        ElectronicProduct elec = new ElectronicProduct(n: "Smart Phone",id: 1 ,p: 599.99f , b: "Samsung",wp: 1);
        ClothingProduct cloth = new ClothingProduct(n: "T-Shirt",id: 2 , p: 19.99f, s: "Meduim", f: "Cotton");
        BookProduct book = new BookProduct(n: "OOP", id: 3, p: 39.99f, a: "O'Reilly", pu: "X Publishet");
        Customer cou = new Customer();
        Cart car = new Cart();
        Order ord = new Order();
        ord.setOrderId(OrderId:1);
        System.out.println(x: "Welcome to the E-commerce system !");
        System.out.println(x: "Please enter your name: ");
        String Name = input.nextLine();
        cou.setname(n: Name);
        System.out.println(x: "Please Enter your ID: ");
        int ID = input.nextInt();
        cou.setcustomerId(cid:ID);
        ord.setCustomerId(customerId: ID);
        System.out.println(x: "Please Enter your address : ");
        String Adsress = input.next();
        cou.setaddress(ad: Adsress);
        System.out.println(x: "How many products you want buy ?");
        int N = input.nextInt();
        car.setnproducts(n: N);
        Product pro[] = new Product[N];
        car.Addproduct(a: pro);
        car.CalculatePrice(a: pro);
```

```java
        System.out.println(x: "Welcome to the E-commerce system !");
        System.out.println(x: "Please enter your name: ");
        String Name = input.nextLine();
        cou.setname(n: Name);
        System.out.println(x: "Please Enter your ID: ");
        int ID = input.nextInt();
        cou.setcustomerId(cid:ID);
        ord.setCustomerId(customerId: ID);
        System.out.println(x: "Please Enter your address : ");
        String Adsress = input.next();
        cou.setaddress(ad: Adsress);
        System.out.println(x: "How many products you want buy ?");
        int N = input.nextInt();
        car.setnproducts(n: N);
        Product pro[] = new Product[N];
        car.Addproduct(a: pro);
        car.CalculatePrice(a: pro);
        Product Pro[] = car.removeproduct(a: pro);
        car.placeorder();
        if(car.c==1){
            ord.PrintOrderInformation(a: pro);
          car.CalculatePrice(a: pro);
        }
        else{
        car.removeproducts(a: pro);
        }
    }
}
```

```java
package com.mycompany.ecommercesystem;
public class Product {
    protected int productId;
    protected String name;
    protected float        ;
    public Product(){}
    public Product(String n , int id, float p){
    name = n;
    productId =id;
         = p;
    }
    public  void setproductId(int id){
    if(id>0){
    productId = id;
    }
    else{
        productId = Math.abs( id);
    }
    }
    public int getproductId(){
      return productId;
    }
    public void setname( String n){
    name = n;
    }
    public String getname(){
    return name;
```
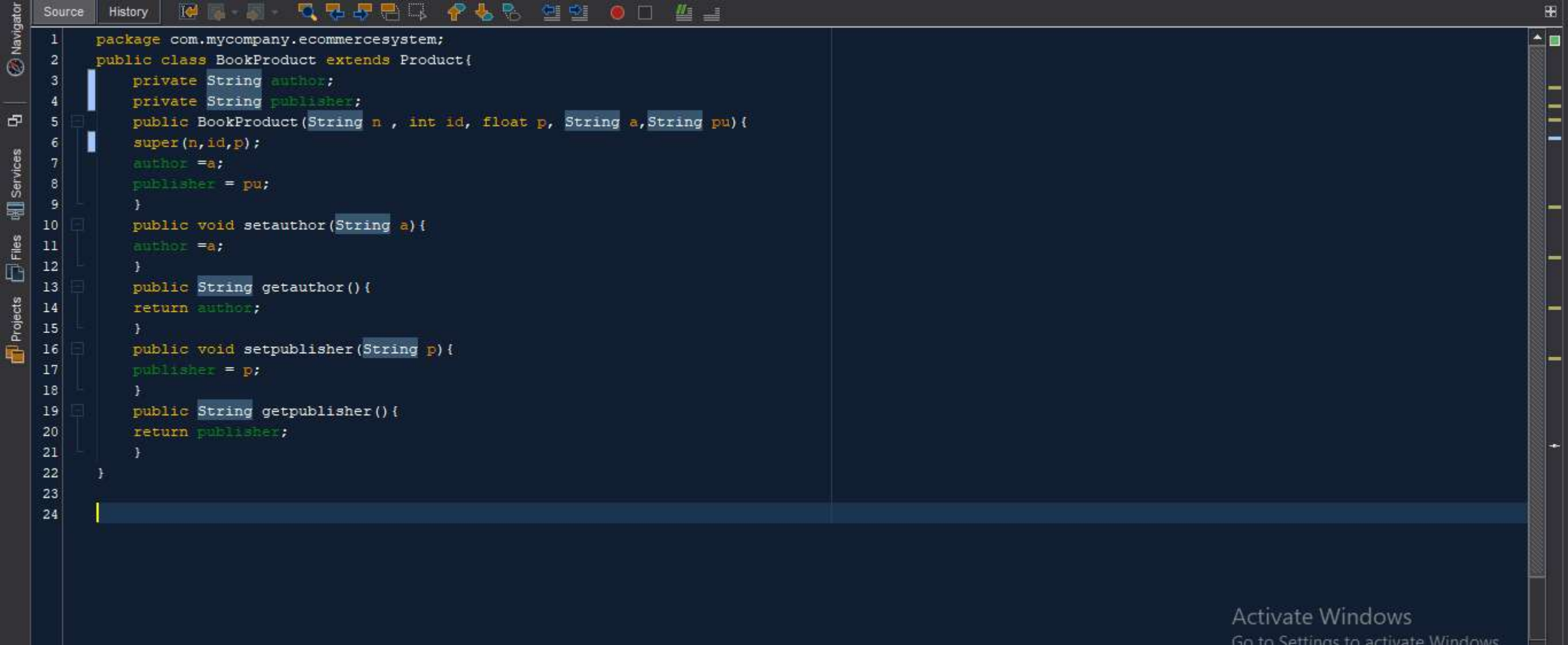
```java
public  void setproductId(int id){
if(id>0){
productId = id;
}
else{
    productId = Math.abs(a: id);
}
}
public int getproductId(){
   return productId;
}
public void setname( String n){
name = n;
}
public String getname(){
return name;
}
public void setprice(float p){
if(p>0){
price = p;
}
else{
    price = Math.abs(a: p);
}
}
public float getprice(){
return price;
}
}
```

```java
package com.mycompany.ecommercesystem;
public class ElectronicProduct extends Product{
    private String brand;
    private int                    ;
    public ElectronicProduct(String n , int id, float p,String b, int wp){
    super(n,id,p);
    brand = b;
                    = wp;
    }
    public void setbrand(String b){
    brand = b;
    }
    public String getbrand(){
    return brand;
    }
    public void setwarrantyPeriod(int wp){
    if(wp>0){
                    = wp;
    }
    else{
            = Math.abs(a: wp);
    }
    }
    public int getwarrantyPeriod(){
    return              ;
    }
}
```

```java
package com.mycompany.ecommercesystem;
public class ClothingProduct extends Product{
    private String size;
    private String fabric;
    public ClothingProduct(String n , int id, float p,String s,String f){
    super(n,id,p);
    size = s;
    fabric =f;
    }
    public void setsize(String s){
    size =s;
    }
    public String getsize(){
    return size;
    }
    public void setfabric(String f){
    fabric = f;
    }
    public String getfabric(){
    return fabric;
    }
}
```

```java
package com.mycompany.ecommercesystem;
public class BookProduct extends Product{
    private String author;
    private String publisher;
    public BookProduct(String n , int id, float p, String a,String pu){
    super(n,id,p);
    author =a;
    publisher = pu;
    }
    public void setauthor(String a){
    author =a;
    }
    public String getauthor(){
    return author;
    }
    public void setpublisher(String p){
    publisher = p;
    }
    public String getpublisher(){
    return publisher;
    }
}
```

```java
package com.mycompany.ecommercesystem;
public class Customer {
    protected int customerId;
    protected String name;
    protected String address;
    public void setcustomerId(int cid){
    if(cid>0){
    customerId = cid;
    }
    else{
        customerId = Math.abs(a: cid);
    }
    }
    public int getcustomerId(){
     return customerId;
    }
    public void setname(String n){
    name =n;
    }
    public String getname(){
    return name;
    }
    public void setaddress(String ad){
    address = ad;
    }
    public String getaddress(){
    return address;
    }
}
```

```java
package com.mycompany.ecommercesystem;
import java.util.Scanner;
public class Cart {
    protected int customerId;
    protected int            ;
    Product products[] = new Product[            ];
    static Scanner input = new Scanner(source: System.in);
    int c;
    public void setcustomerId(int cid){
    if(cid>0){
    customerId = cid;
    }
    else{
        customerId = Math.abs(a: cid);
    }
    }
    public int getcustomerId(){
     return customerId;
    }
    public void setnproducts(int n){
            = n;
    }
    public int getnproducts(){
    return            ;
    }
    public void Addproduct(Product[]a){
    int n;
    for(int i =0 ;i<a.length;i++){
        System.out.println(x: "which product you would add?");
        System.out.println(x: "1.Smart phone");
```

```java
        public void AddProduct(Product[]a){
            int n;
            for(int i =0 ;i<a.length;i++){
                System.out.println(x: "which product you would add?");
                System.out.println(x: "1.Smart phone");
                System.out.println(x: "2.T-shirt");
                System.out.println(x: "3.OOP");
                n = input.nextInt();
                switch(n){
                case(1):
                    a[i]= new Product(n: "Smart Phone", id: 1, p: 599.99f);
                    break;
                case (2):
                    a[i]= new Product(n: "T-shirt", id: 2, p: 19.99f);
                    break;
                case(3):
                    a[i]= new Product(n: "OOP", id: 3, p: 39.99f);
                    break;
                default:
                    a[i]= new Product(n: null, id: 0, p: 0f);
                    break;
                }
            }
        }
        public Product[] removeproduct(Product[]a){
            System.out.println(x: "Would you like to delete and a product: ");
            System.out.println(x: "1-Yes");
            System.out.println(x: "2-No");
            int n = input.nextInt();
            switch (n) {
                case 1:
```

```java
50          System.out.println(x: "Would you like to delete and a product: ");
51          System.out.println(x: "1-Yes");
52          System.out.println(x: "2-No");
53          int n = input.nextInt();
            switch (n) {
55              case 1:
56          System.out.println(x: "What is the number of the product you want to delete: ");
57          int N = input.nextInt();
58          for(int i = 0;i<a.length;i++){
59            if(i==N-1){
60                a[i] = new Product(n: "Null", id: 0, p: 0f);
61                 }
62              else
                        continue;
64              }
65              return a;
66
67          default:
68              return a;
69
70      }
71  }
72  public void removeproducts(Product[]a){
73  for(int i = 0; i<a.length;i++){
74  a[i] = null;
75  }
76  }
77  public void CalculatePrice(Product[]a){
78  float toatlprice = 0f;
79
    for(int i = 0 ;i<a.length;i++){
```

```java
                a[i] = null;
            }
        }
        public void CalculatePrice(Product[]a){
        float toatlprice = 0f;

        for(int i = 0 ;i<a.length;i++){
            toatlprice+=a[i].price;
        }
            System.out.println("Total price is " + toatlprice);
        }


    public void placeorder(){
        System.out.println(x: "Would you like to place order?");
        System.out.println(x: "1-YES");
        System.out.println(x: "2-NO");
        c = input.nextInt();
        switch (c) {
            case 1:
                System.out.println(x: "Here is your order summary: ");
                break;
            case 2:
                System.out.println(x: "Your order is cancelled");
                break;
            default:
                System.out.println(x: "Invalid choice");
        }

    }
}
```

```java
package com.mycompany.ecommercesystem;
public class Order {
    protected int customerId;
    protected int OrderId;
    protected float TotalPrice;
    public Order(){
    }

    public Order(int customerId, int OrderId, float TotalPrice) {
        this.customerId = customerId;
        this.OrderId = OrderId;
        this.TotalPrice = TotalPrice;
    }

    public int getCustomerId() {
        return customerId;
    }

    public int getOrderId() {
        return OrderId;
    }

    public float getTotalPrice() {
        return TotalPrice;
    }

    public void setCustomerId(int cid) {
        if(cid>0){
        customerId = cid;
        }
        else{
```

```java
    public int getOrderId() {
        return OrderId;
    }


    public float getTotalPrice() {
        return TotalPrice;
    }


    public void setCustomerId(int customerId) {
        this.customerId = customerId;
    }


    public void setOrderId(int OrderId) {
        this.OrderId = OrderId;
    }


    public void setTotalPrice(float TotalPrice) {
        this.TotalPrice = TotalPrice;
    }
    public void PrintOrderInformation(Product[]a){
        System.out.println("Order Id: " + OrderId);
        System.out.println("Customer Id: " + customerId);
        System.out.println("Products: ");
        for(int i =0 ;i<a.length;i++){
            System.out.println(a[i].name + " - "+ a[i].price);


        }

    }
}
```

```
Welcome to the E-commerce system !
Please enter your name:
Yousef Sherif Mohamed Samir
Please Enter your ID:
23011187
Please Enter your address :
Smouha
How many products you want buy ?
4
which product you would add?
1.Smart phone
2.T-shirt
3.OOP
2
which product you would add?
1.Smart phone
2.T-shirt
3.OOP
3
which product you would add?
1.Smart phone
2.T-shirt
3.OOP
2
which product you would add?
1.Smart phone
2.T-shirt
3.OOP
1
Total price is 679.95996
Would you like to delete and a product:
1-Yes
2-No
2
Would you like to place order?
1-YES
2-NO
```

```
2.T-shirt
3.OOP
2
which product you would add?
1.Smart phone
2.T-shirt
3.OOP
3
which product you would add?
1.Smart phone
2.T-shirt
3.OOP
2
which product you would add?
1.Smart phone
2.T-shirt
3.OOP
1
Total price is 679.95996
Would you like to delete and a product:
1-Yes
2-No
2
Would you like to place order?
1-YES
2-NO
1
Here is your order summary:
Order Id: 1
Customer Id: 23011187
Products:
T-shirt - 19.99
OOP - 39.99
T-shirt - 19.99
Smart Phone - 599.99
Total price is 679.95996
```

E-commerce system

Welcome to our commerce System

Name : Yousef Sherif Mohamed Samir

Password : ···········

Customer ID : 23011187

Address : Smouha

Save   **Delete**

E-commerce System

Name: Yousef Sherif Mohamed Samir

CustomerID: 23011187

Address: Smouha

Products:

Smartphone(ID:1 - Price:599,9 - Brand:Samsung)   [Add]   [Remove]

T-Shirt(ID:2 - Price:19.99 - Size:Meduim - Fabric:cotton)   [Add]   [Remove]

OOP(ID:3 - Price:39.99 - Author:O'Reilly - Publisher:X Publications)   [Add]   [Remove]

[Confirm]   [Cancel]

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