```java
import java.util.Scanner;
public class EcommerceSystem {
  public static void main(String[] args) {
    Scanner in = new Scanner(source:System.in);
    ElectronicProduct EP = new ElectronicProduct();
    BookProduct BP = new BookProduct();
    ClothingProduct CP = new ClothingProduct();
    Cart C = new Cart();
    Customer CU = new Customer();
    Order O = new Order();
    EP.setName(name: "SmartPhone");
    EP.setPrice((float) 599.9);
    EP.setProductID(pID: 1);
    EP.setBrand(brand: "Samsung");
    EP.setWarrantlyPeriod(warrantlyPeriod: 1);
    CP.setName(name: "T-shirt");
    CP.setPrice((float) 19.99);
    CP.setProductID(pID: 2);
    CP.setSize(size: "Medium");
    CP.setFabric(fabric:"Cotton");
    BP.setName(name: "OOP");
    BP.setPrice((float) 39.99);
    BP.setProductID(pID: 3);
    BP.setAuthor(author:"O'Reilly");
    BP.setPublisher(publisher:"X Publications");
      System.out.println(x: "Welcome to the E-commerce System!");
      System.out.println(x: "please enter your id");
       int id = in.nextInt();
      System.out.println(x: "please enter your name");
       String name = in.next();
      System.out.println(x: "please enter your address");
       String address = in.next();
    CU.setCostomerID(customerID: id);
    CU.setName(name);
    CU.setAddress(address);
      System.out.println(x: "How many products you want to add in your cart ?");
       int x = in.nextInt();
```
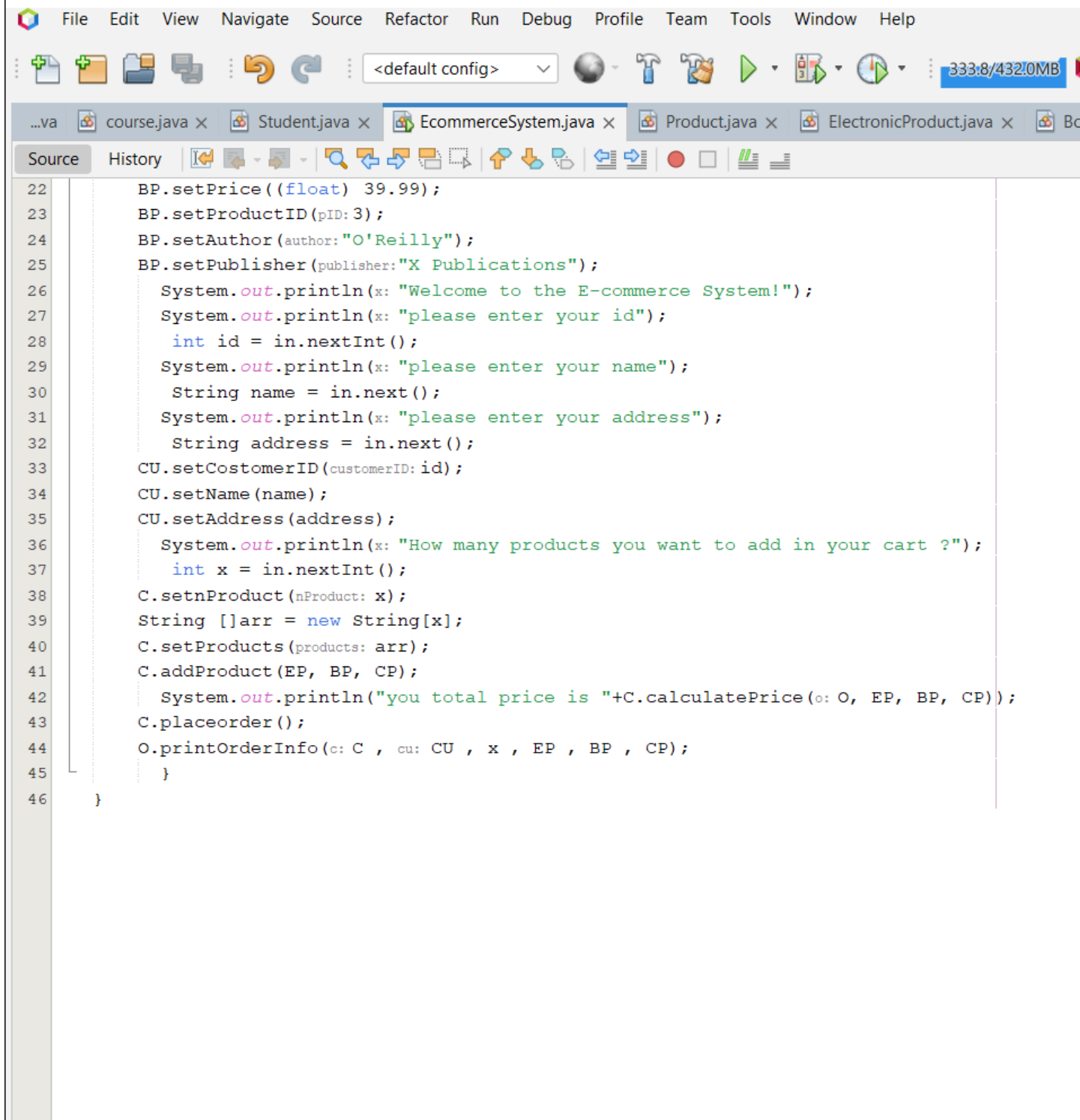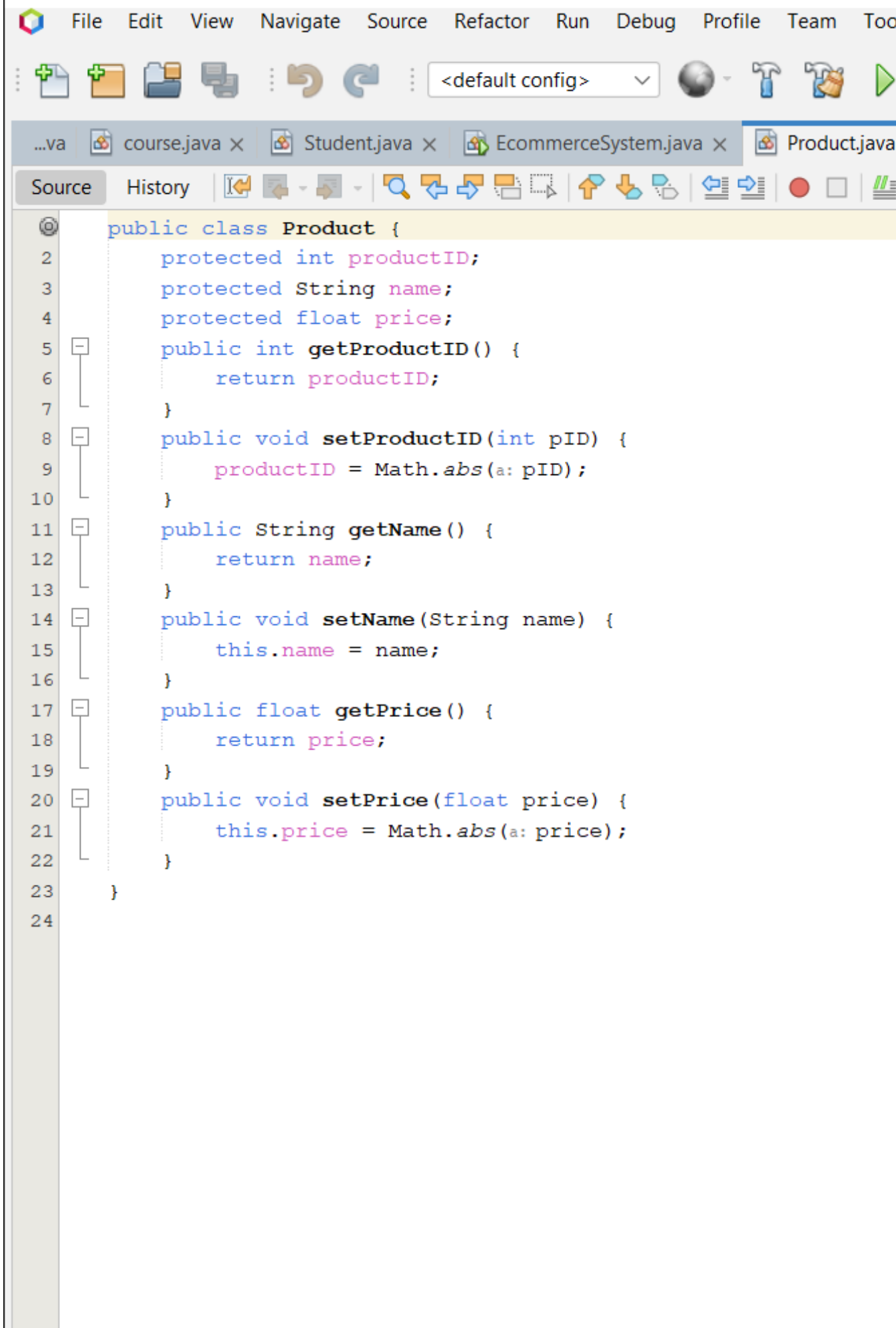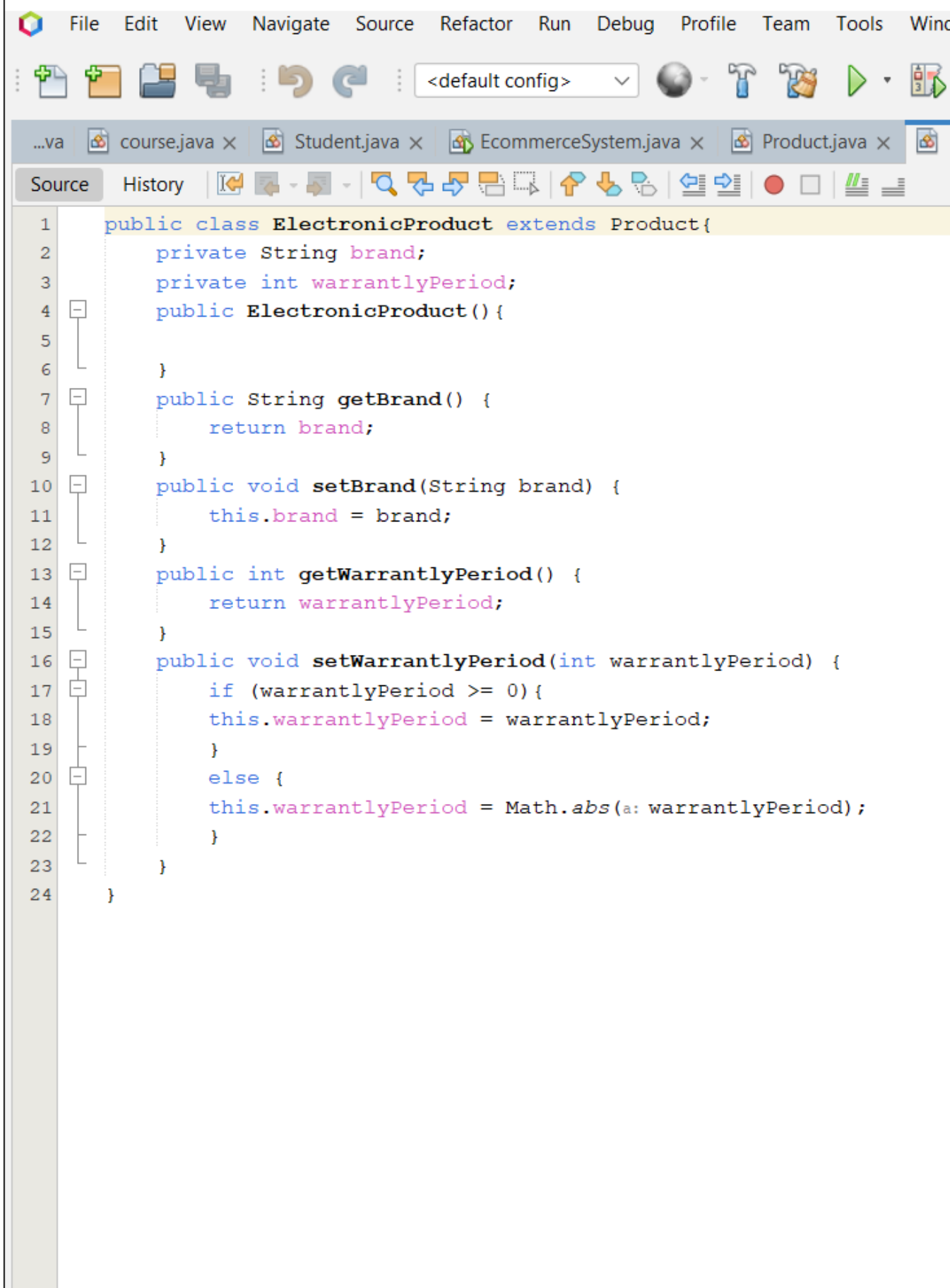
```java
22          BP.setPrice((float) 39.99);
23          BP.setProductID(pID:3);
24          BP.setAuthor(author:"O'Reilly");
25          BP.setPublisher(publisher:"X Publications");
26            System.out.println(x: "Welcome to the E-commerce System!");
27            System.out.println(x: "please enter your id");
28             int id = in.nextInt();
29            System.out.println(x: "please enter your name");
30             String name = in.next();
31            System.out.println(x: "please enter your address");
32             String address = in.next();
33          CU.setCostomerID(customerID: id);
34          CU.setName(name);
35          CU.setAddress(address);
36            System.out.println(x: "How many products you want to add in your cart ?");
37             int x = in.nextInt();
38          C.setnProduct(nProduct: x);
39          String []arr = new String[x];
40          C.setProducts(products: arr);
41          C.addProduct(EP, BP, CP);
42            System.out.println("you total price is "+C.calculatePrice(o: O, EP, BP, CP));
43          C.placeorder();
44          O.printOrderInfo(c: C , cu: CU , x , EP , BP , CP);
45            }
46      }
```
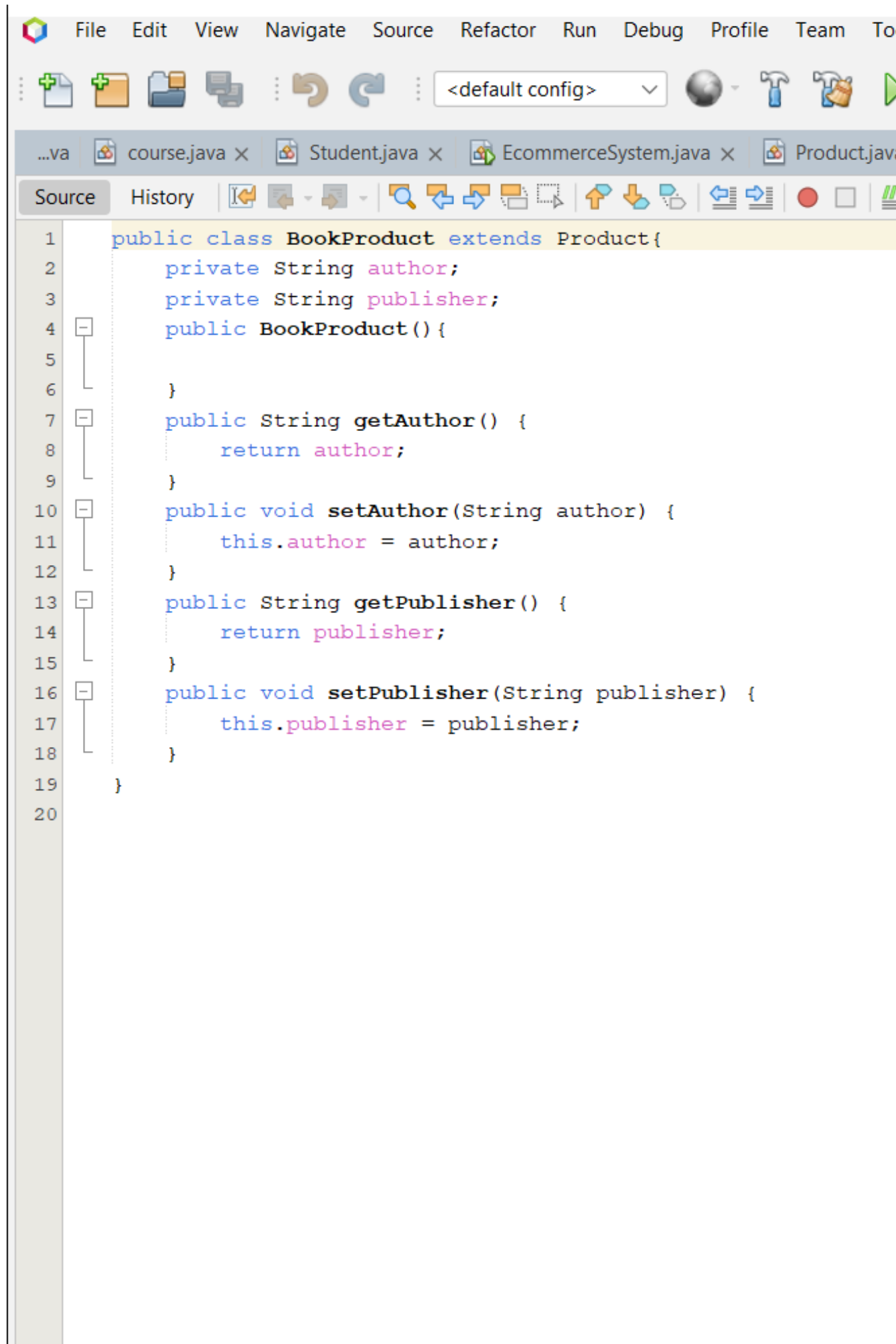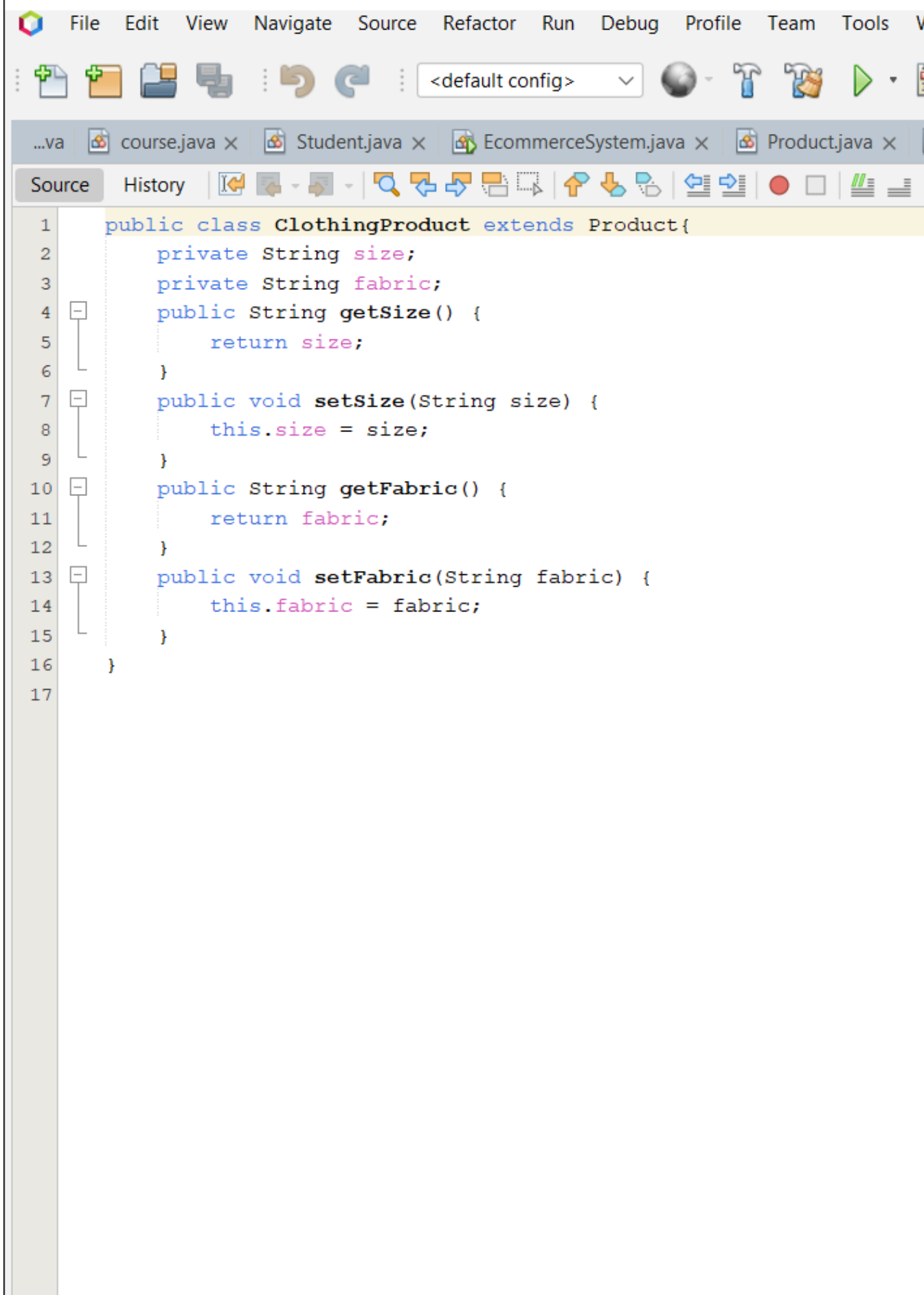
```java
public class Product {
    protected int productID;
    protected String name;
    protected float price;
    public int getProductID() {
        return productID;
    }
    public void setProductID(int pID) {
        productID = Math.abs(a: pID);
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public float getPrice() {
        return price;
    }
    public void setPrice(float price) {
        this.price = Math.abs(a: price);
    }
}
```

Source   History

```java
public class ElectronicProduct extends Product{
    private String brand;
    private int warrantlyPeriod;
    public ElectronicProduct(){


    }
    public String getBrand() {
        return brand;
    }
    public void setBrand(String brand) {
        this.brand = brand;
    }
    public int getWarrantlyPeriod() {
        return warrantlyPeriod;
    }
    public void setWarrantlyPeriod(int warrantlyPeriod) {
        if (warrantlyPeriod >= 0){
        this.warrantlyPeriod = warrantlyPeriod;
        }
        else {
        this.warrantlyPeriod = Math.abs(a: warrantlyPeriod);
        }
    }
}
```

...va   course.java ×   Student.java ×   EcommerceSystem.java ×   Product.java

Source   History

```java
1     public class BookProduct extends Product{
2         private String author;
3         private String publisher;
4         public BookProduct(){
5
6         }
7         public String getAuthor() {
8             return author;
9         }
10        public void setAuthor(String author) {
11            this.author = author;
12        }
13        public String getPublisher() {
14            return publisher;
15        }
16        public void setPublisher(String publisher) {
17            this.publisher = publisher;
18        }
19    }
20
```

Source   History

```java
public class ClothingProduct extends Product{
    private String size;
    private 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;
    }
}
```
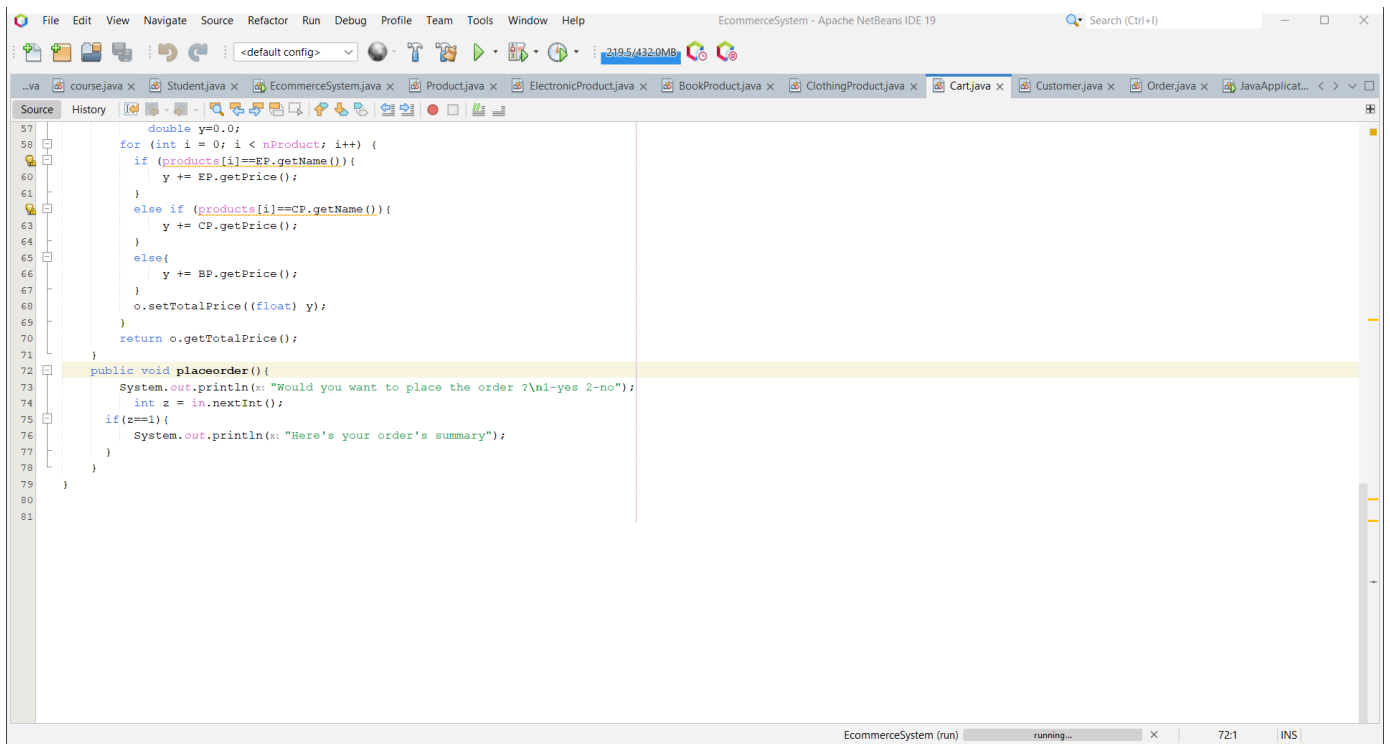
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...va | course.java × | Student.java × | EcommerceSystem.java × | Product.java × | ElectronicProduct.java × | BookProduct.java × | ClothingProduct.java × | Cart.java × | Customer.java × | Order.java × | JavaApplicat...

Source | History

```java
import java.util.Scanner;
public class Cart {
    Scanner in = new Scanner(source:System.in);
    private int customerID;
    private int nProduct;
    public String [] products = new String [nProduct];
    public int getCustomerID() {
        return customerID;
    }
    public void setCustomerID(int customerID) {
        this.customerID = Math.abs(a: customerID);
    }
    public int getnProduct() {
        return nProduct;
    }
    public void setnProduct(int nProduct) {
        this.nProduct = Math.abs(a: nProduct);
    }
    public String[] getProducts() {
        return products;
    }
    public void setProducts(String[] products) {
        this.products = products;
    }
    public void addProduct(ElectronicProduct EP , BookProduct BP , ClothingProduct CP) {
        for(int i=0 ; i<products.length ; i++){
            System.out.println("Which product would you add \n"+EP.getProductID()+"- "+EP.getName()+" "+CP.getProductID()+"_ "+CP.getName()+" "+BP.getProductID()+"- "+BP.getName());
            int z = in.nextInt();
            if( z<products.length ){
                if (z==1){
                    products[i] = EP.getName();
                }
                else if (z==2){
                    products[i] = CP.getName();
                }
                else if (z==3){
                    products[i] = BP.getName();
```

EcommerceSystem (run)   running...   ×   72:1   INS

`<default config>`   261.5/432.0MB

...va | course.java × | Student.java × | EcommerceSystem.java × | Product.java × | ElectronicProduct.java × | BookProduct.java × | ClothingProduct.java × | Cart.java × | Customer.java × | Order.java × | JavaApplicat...

Source | History

```java
                else if (z==3){
                    products[i] = BP.getName();
                }
            }
            else{
                System.out.println(x: "invalid number");
            }
        }
    }
    public void removeProduct(int index) {
        if (index >= 0 && index < nProduct) {
            for (int i = index; i < nProduct - 1; i++) {
                products[i] = products[i + 1];
            }
            nProduct--;
        } else {
            System.out.println(x: "Invalid index!");
        }
    }
    public float calculatePrice(Order o , ElectronicProduct EP , BookProduct BP , ClothingProduct CP) {
        o.setTotalPrice(totalPrice: 0);
        double y=0.0;
        for (int i = 0; i < nProduct; i++) {
            if (products[i]==EP.getName()){
                y += EP.getPrice();
            }
            else if (products[i]==CP.getName()){
                y += CP.getPrice();
            }
            else{
                y += BP.getPrice();
            }
            o.setTotalPrice((float) y);
        }
        return o.getTotalPrice();
    }
    public void placeorder(){
```

EcommerceSystem (run)   running...   ×   72:1   INS

CamScanner

```java
                    double y=0.0;
            for (int i = 0; i < nProduct; i++) {
                if (products[i]==EP.getName()){
                    y += EP.getPrice();
                }
                else if (products[i]==CP.getName()){
                    y += CP.getPrice();
                }
                else{
                    y += BP.getPrice();
                }
                o.setTotalPrice((float) y);
            }
            return o.getTotalPrice();
        }
    public void placeorder(){
            System.out.println(x: "Would you want to place the order ?\n1-yes 2-no");
                int z = in.nextInt();
        if(z==1){
                System.out.println(x: "Here's your order's summary");
            }
        }
    }
```

...va   course.java ×   Student.java ×   EcommerceSystem.java ×   Product.java ×

Source   History

```java
public class Customer {
    private int customerID;
    private String name;
    private String address;
    public int getCustomerID() {
        return customerID;
    }
    public void setCostomerID(int customerID) {
        this.customerID = Math.abs(a: 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;
    }
}
```

```java
public class Order {
    private int orderID;
    private float totalPrice;
    public int getOrderID() {
        return orderID;
    }
    public void setOrderID(int orderID) {
        this.orderID = Math.abs(a: orderID);
    }
    public float getTotalPrice() {
        return totalPrice;
    }
    public void setTotalPrice(float totalPrice) {
        this.totalPrice = Math.abs(a: totalPrice);
    }
    public void printOrderInfo(Cart c , Customer cu , int x , ElectronicProduct EP , BookProduct BP , ClothingProduct CP){
        System.out.println("Order ID : 1\nCustomer ID : "+cu.getCustomerID()+"\nProducts");
        for(int i=0 ; i<x ; i++){
            System.out.print(c.products[i]+" - ");
            if(c.products[i]== EP.getName()){
                System.out.print(EP.getPrice()+"\n");
            }
            else if(c.products[i]== BP.getName()){
                System.out.print(BP.getPrice()+"\n");
            }
            else if(c.products[i]== CP.getName()){
                System.out.print(CP.getPrice()+"\n");
            }
        }
        System.out.println("Total price : "+getTotalPrice());
    }
}
```

Welcome to the E-commerce System!

please enter your id

23011071

please enter your name

kholoud

please enter your address

elwerdian

How many products you want to add in your cart ?

4

Which product would you add

1- SmartPhone 2_ T-shirt 3- OOP

2

Which product would you add

1- SmartPhone 2_ T-shirt 3- OOP

3

Which product would you add

1- SmartPhone 2_ T-shirt 3- OOP

2

Which product would you add

1- SmartPhone 2_ T-shirt 3- OOP

1

you total price is 679.87

Would you want to place the order ?

1-yes 2-no

1

Here's your order's summary

Order ID : 1

Customer ID : 23011071

Products

T-shirt - 19.99

OOP - 39.99

T-shirt - 19.99

SmartPhone - 599.9

Total price : 679.87