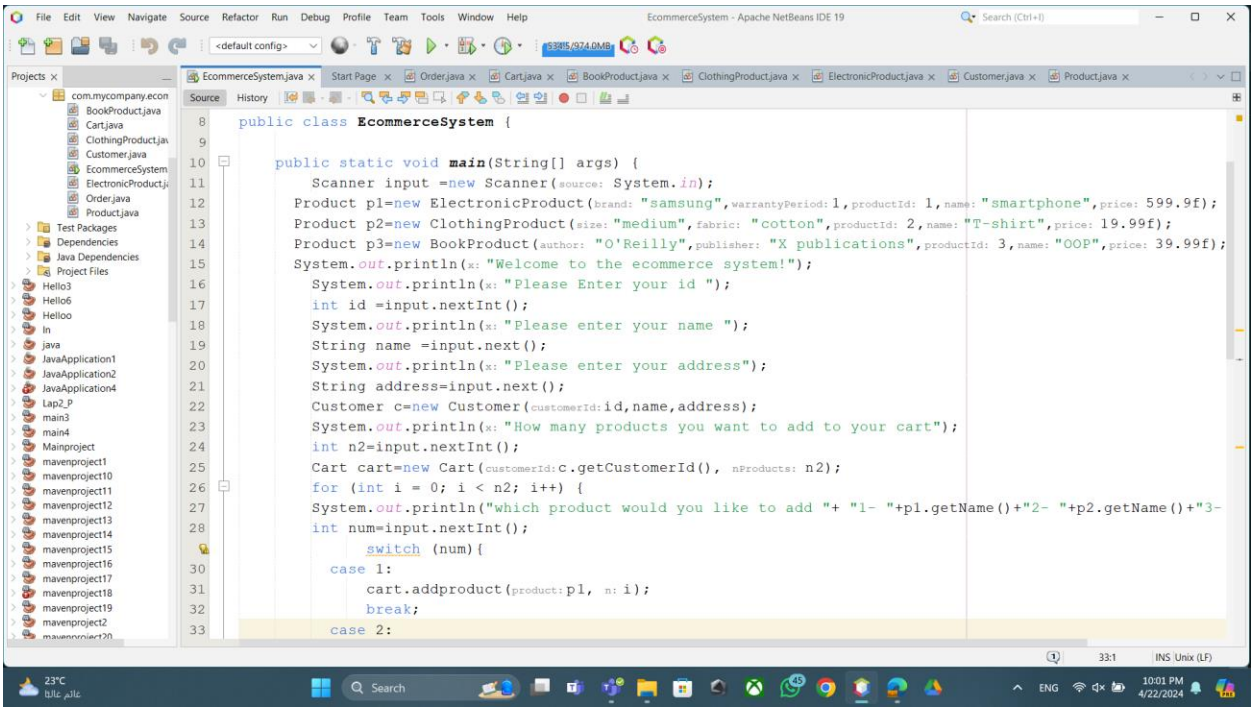
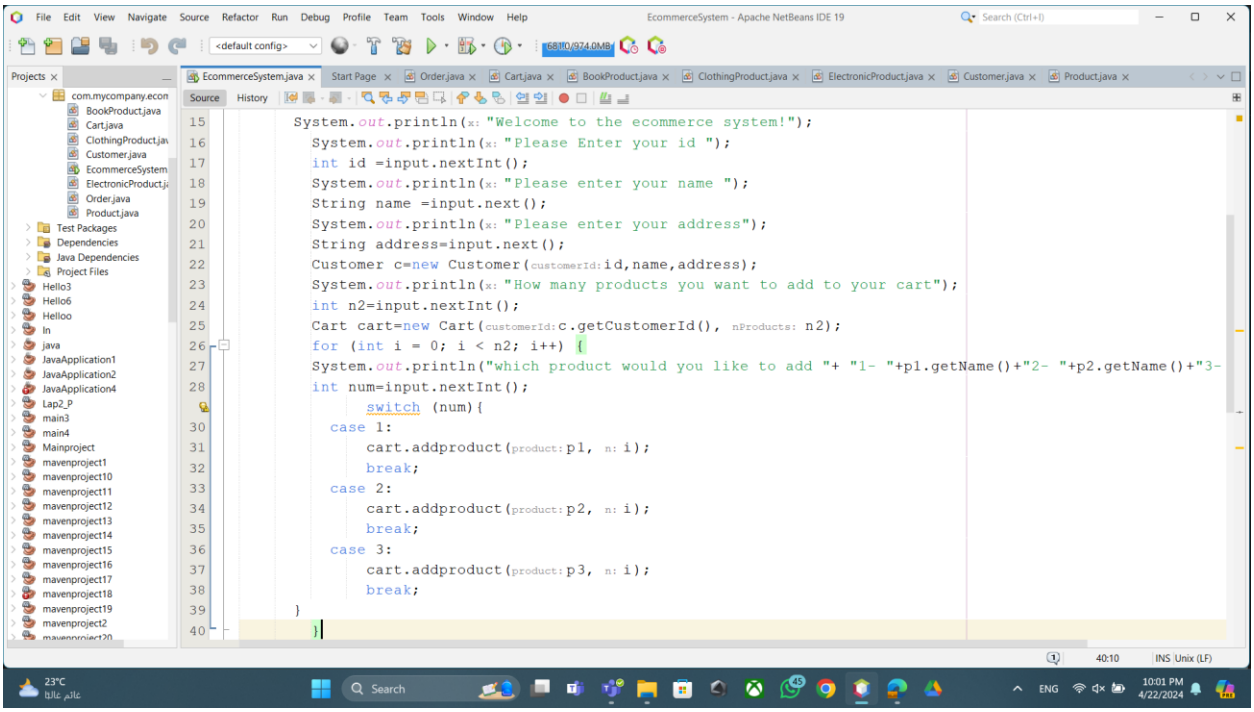
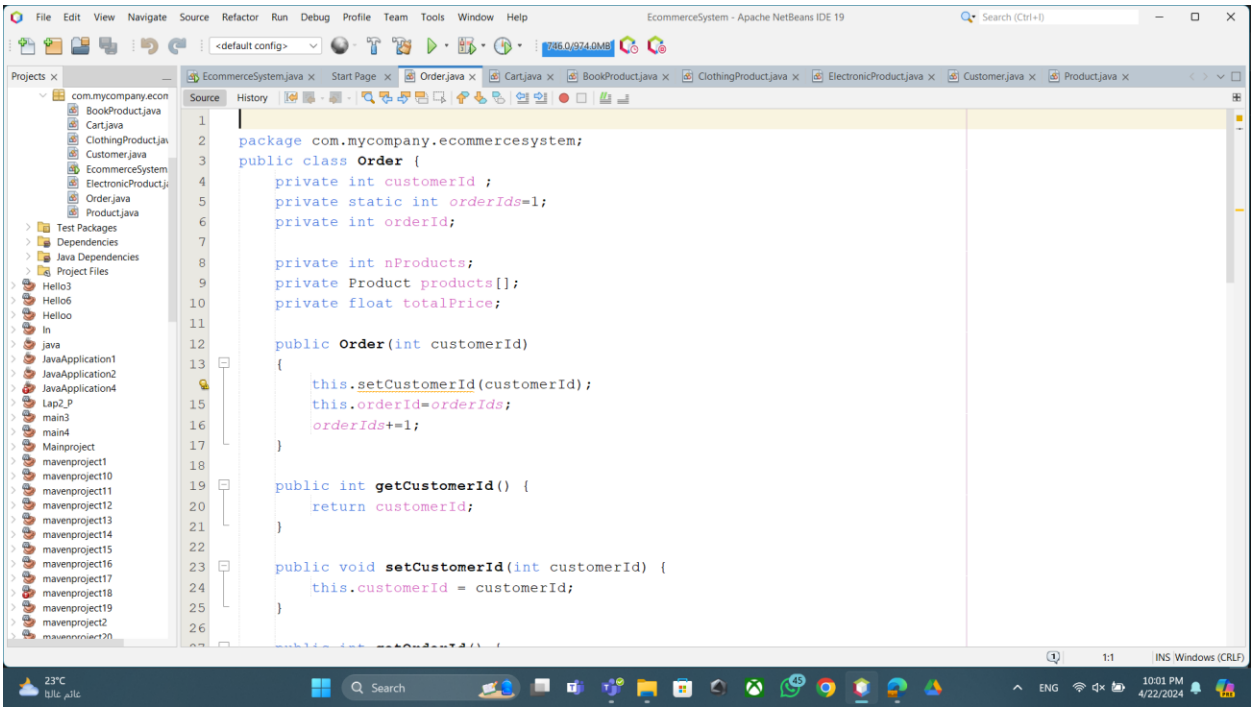


```
public class EcommerceSystem {

    public static void main(String[] args) {
        Scanner input =new Scanner(source: System.in);
      Product p1=new ElectronicProduct(brand: "samsung",warrantyPeriod: 1,productId: 1,name: "smartphone",price: 599.9f);
      Product p2=new ClothingProduct(size: "medium",fabric: "cotton",productId: 2,name: "T-shirt",price: 19.99f);
      Product p3=new BookProduct(author: "O'Reilly",publisher: "X publications",productId: 3,name: "OOP",price: 39.99f);
      System.out.println(x: "Welcome to the ecommerce system!");
        System.out.println(x: "Please Enter your id ");
        int id =input.nextInt();
        System.out.println(x: "Please enter your name ");
        String name =input.next();
        System.out.println(x: "Please enter your address");
        String address=input.next();
        Customer c=new Customer(customerId:id,name,address);
        System.out.println(x: "How many products you want to add to your cart");
        int n2=input.nextInt();
        Cart cart=new Cart(customerId:c.getCustomerId(), nProducts: n2);
        for (int i = 0; i < n2; i++) {
        System.out.println("which product would you like to add "+ "1- "+p1.getName()+"2- "+p2.getName()+"3-
        int num=input.nextInt();
              switch (num){
          case 1:
              cart.addproduct(product:p1, n: i);
              break;
          case 2:
```



```
      System.out.println(x: "Welcome to the ecommerce system!");
        System.out.println(x: "Please Enter your id ");
        int id =input.nextInt();
        System.out.println(x: "Please enter your name ");
        String name =input.next();
        System.out.println(x: "Please enter your address");
        String address=input.next();
        Customer c=new Customer(customerId:id,name,address);
        System.out.println(x: "How many products you want to add to your cart");
        int n2=input.nextInt();
        Cart cart=new Cart(customerId:c.getCustomerId(), nProducts: n2);
        for (int i = 0; i < n2; i++) {
        System.out.println("which product would you like to add "+ "1- "+p1.getName()+"2- "+p2.getName()+"3-
        int num=input.nextInt();
              switch (num){
          case 1:
              cart.addproduct(product:p1, n: i);
              break;
          case 2:
              cart.addproduct(product:p2, n: i);
              break;
          case 3:
              cart.addproduct(product:p3, n: i);
              break;
      }
      }
```


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
EcommerceSystem - Apache NetBeans IDE 19
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<default config>
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Projects
EcommerceSystem.java
Start Page
Order.java
Cart.java
BookProduct.java
ClothingProduct.java
ElectronicProduct.java
Customer.java
Product.java
Source
History
com.mycompany.econ
BookProduct.java
Cart.java
ClothingProduct.jav
Customer.java
EcommerceSystem
ElectronicProduct.ja
Order.java
Product.java
Test Packages
Dependencies
Java Dependencies
Project Files
Hello3
Hello6
Helloo
In
java
JavaApplication1
JavaApplication2
JavaApplication4
Lap2_P
main3
main4
Mainproject
mavenproject1
mavenproject10
mavenproject11
mavenproject12
mavenproject13
mavenproject14
mavenproject15
mavenproject16
mavenproject17
mavenproject18
mavenproject19
mavenproject2
1 package com.mycompany.ecommercesystem;
2 public class Order {
3 private int customerId ;
4 private static int orderIds=1;
5 private int orderId;
6
7 private int nProducts;
8 private Product products[];
9 private float totalPrice;
10
11 public Order(int customerId)
12 {
13 this.setCustomerId(customerId);
15 this.orderId=orderIds;
16 orderIds+=1;
17 }
18
19 public int getCustomerId() {
20 return customerId;
21 }
22
23 public void setCustomerId(int customerId) {
24 this.customerId = customerId;
25 }
26
1:1
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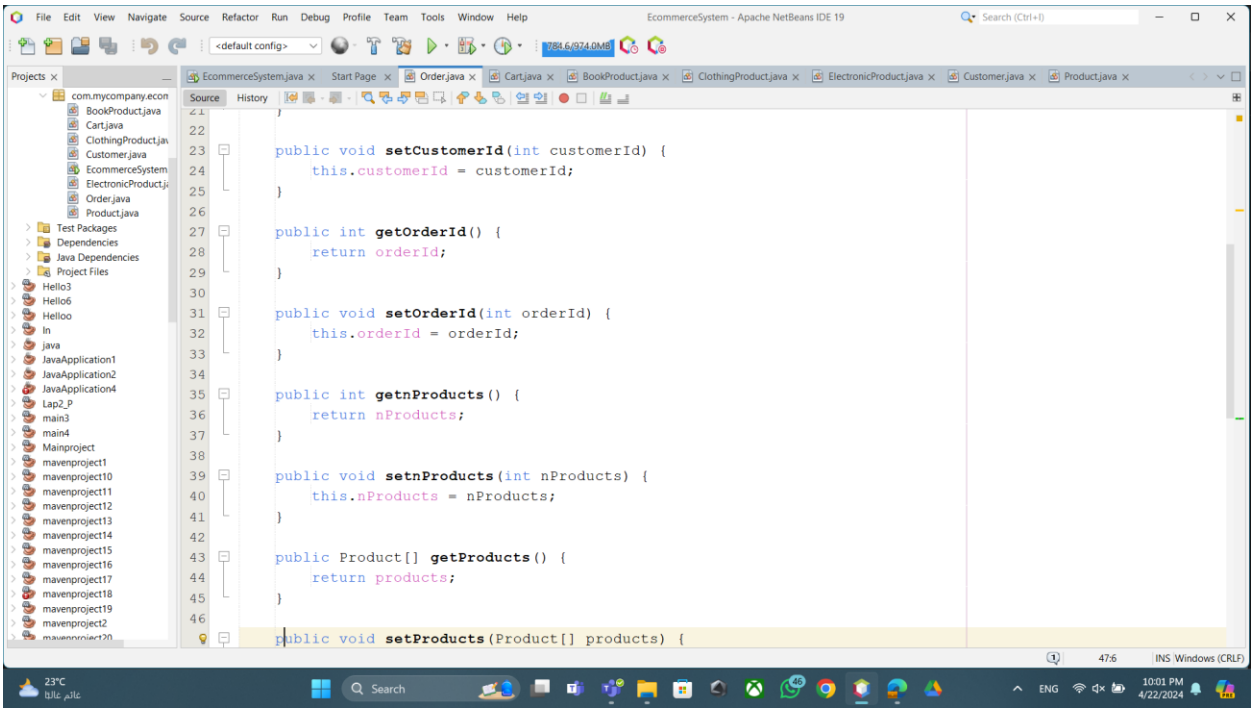
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EcommerceSystem - Apache NetBeans IDE 19
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Projects
EcommerceSystem.java
Start Page
Order.java
Cart.java
BookProduct.java
ClothingProduct.java
ElectronicProduct.java
Customer.java
Product.java
Source
History
23 }
24
25 public void setCustomerId(int customerId) {
26 this.customerId = customerId;
27 }
28
29 public int getOrderId() {
30 return orderId;
31 }
32
33 public void setOrderId(int orderId) {
34 this.orderId = orderId;
35 }
36
37 public int getnProducts() {
38 return nProducts;
39 }
40
41 public void setnProducts(int nProducts) {
42 this.nProducts = nProducts;
43 }
44
45 public Product[] getProducts() {
46 return products;
47 }
48
49 public void setProducts(Product[] products) {
47:6
INS Windows (CRLF)
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ENG
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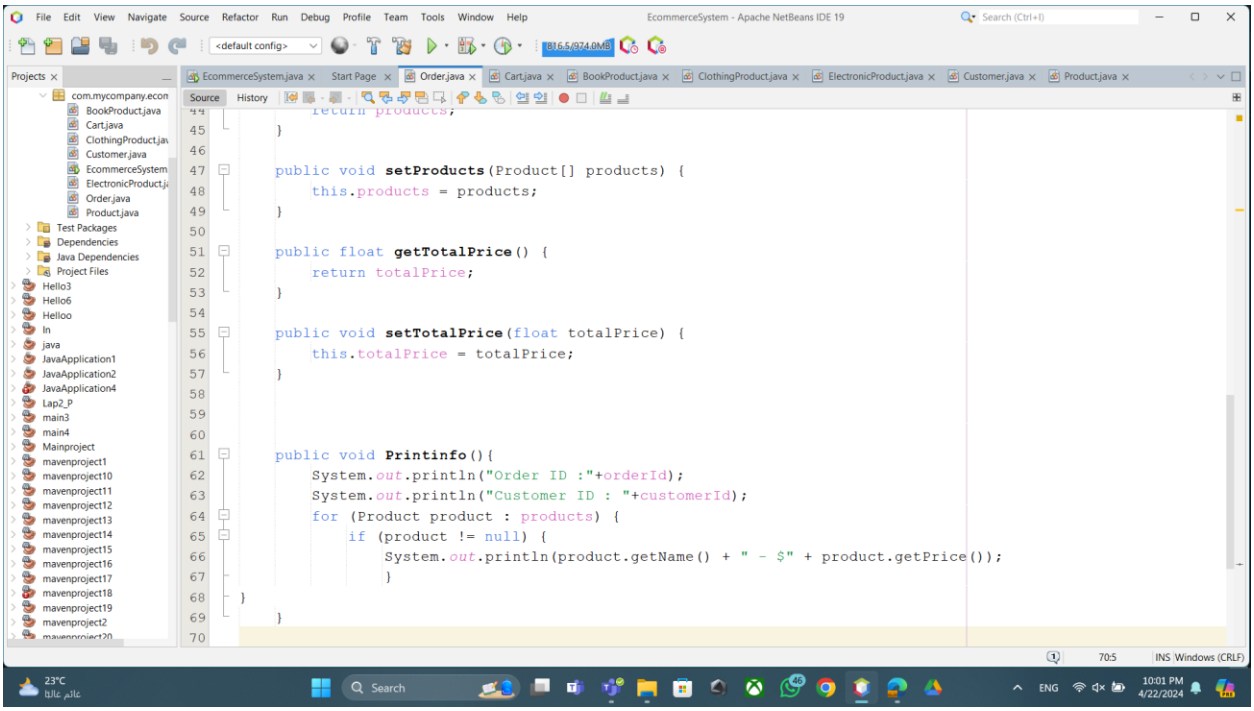
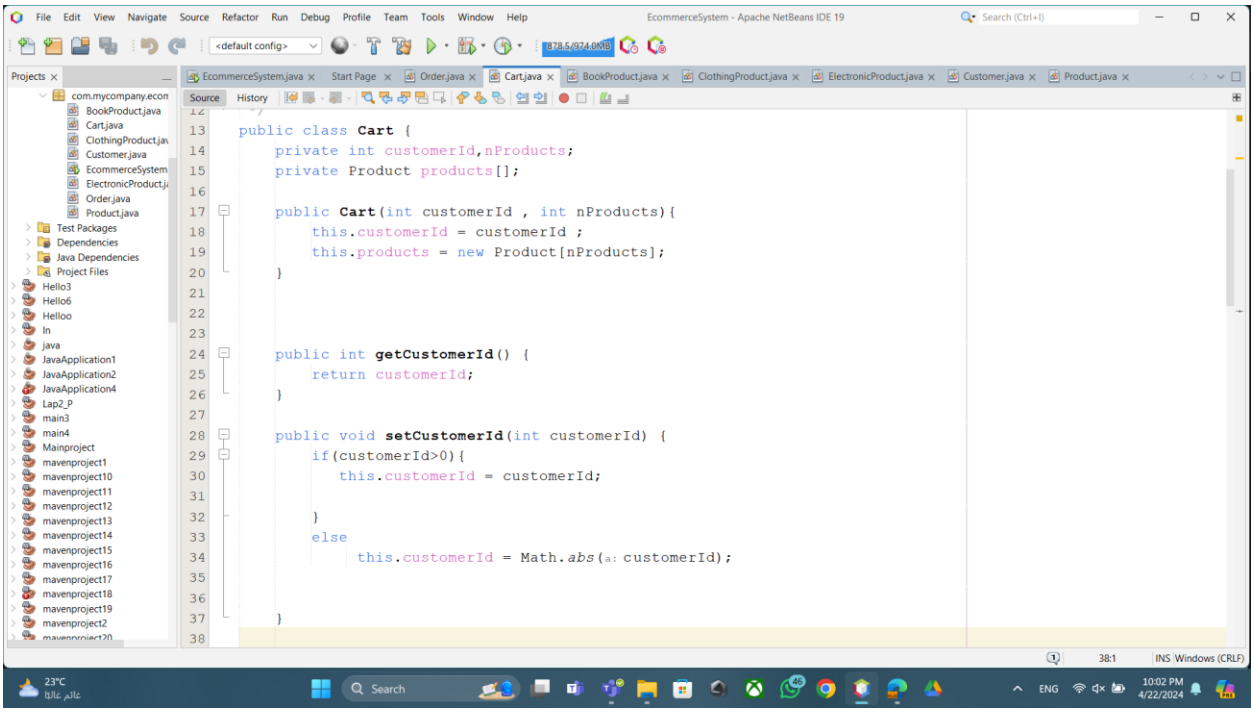
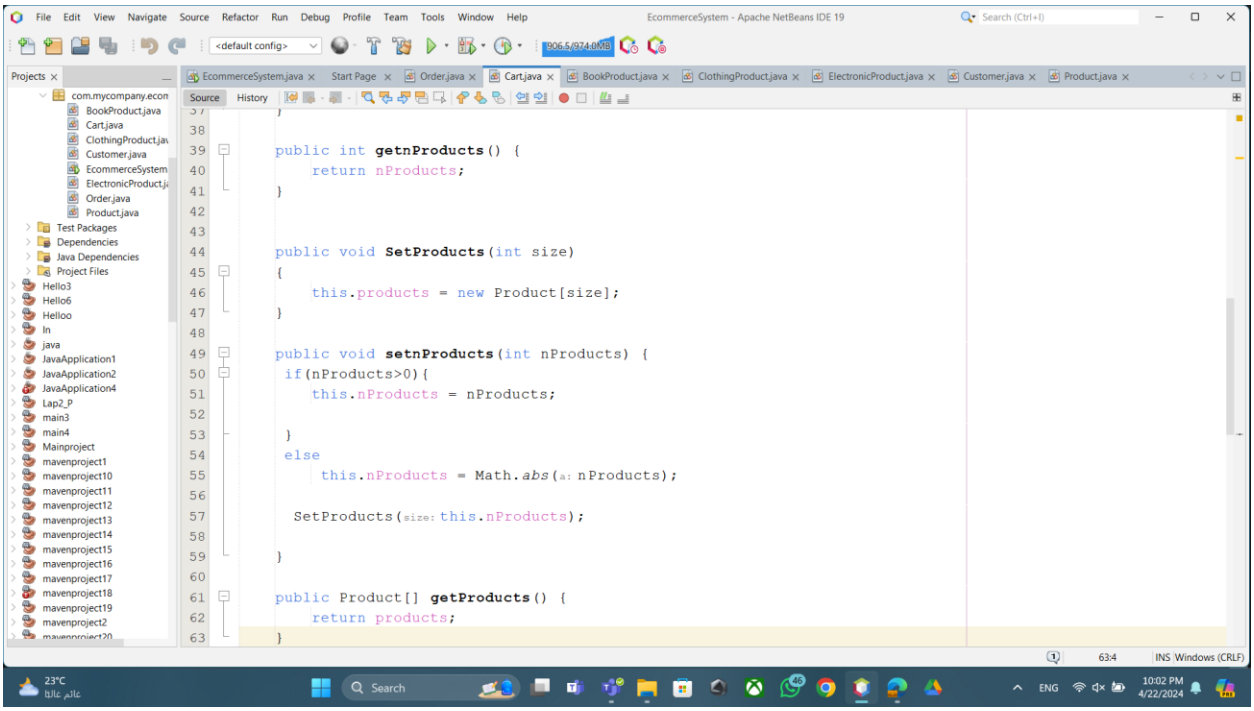


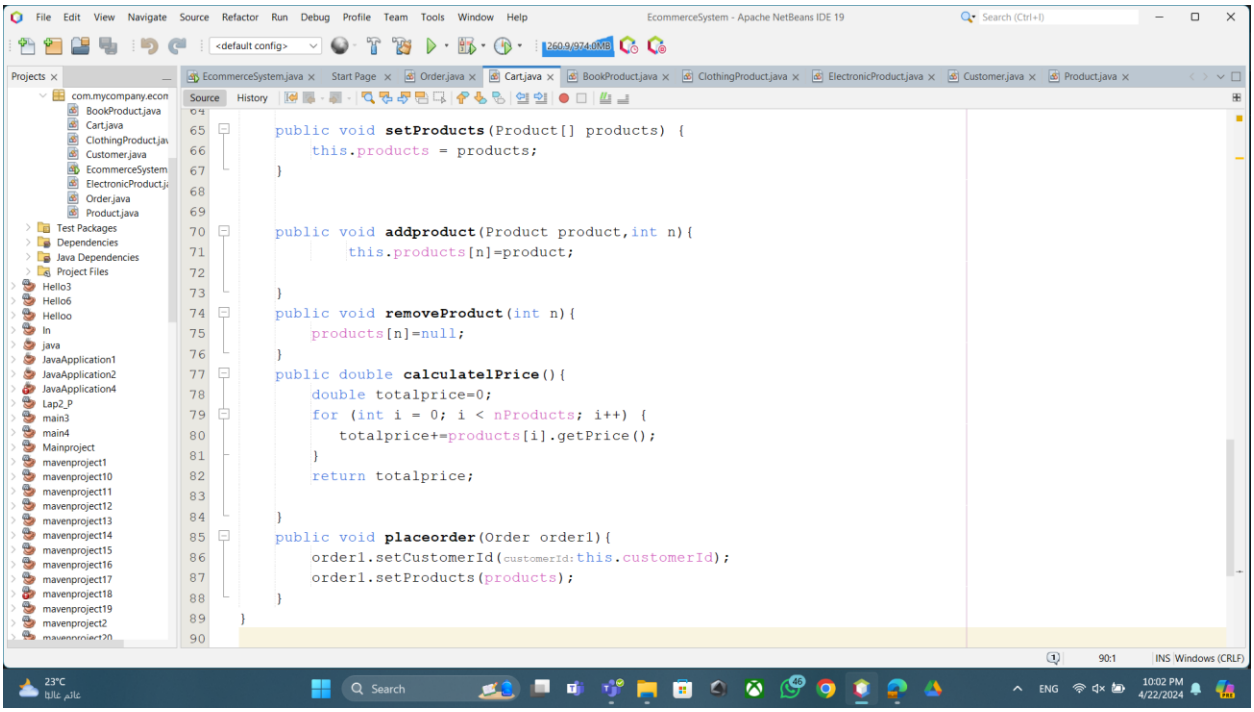
```
    }

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

    public float getTotalPrice() {
        return totalPrice;
    }

    public void setTotalPrice(float totalPrice) {
        this.totalPrice = totalPrice;
    }



    public void Printinfo(){
        System.out.println("Order ID :"+orderId);
        System.out.println("Customer ID : "+customerId);
        for (Product product : products) {
            if (product != null) {
                System.out.println(product.getName() + " - $" + product.getPrice());
                }
}
    }
```



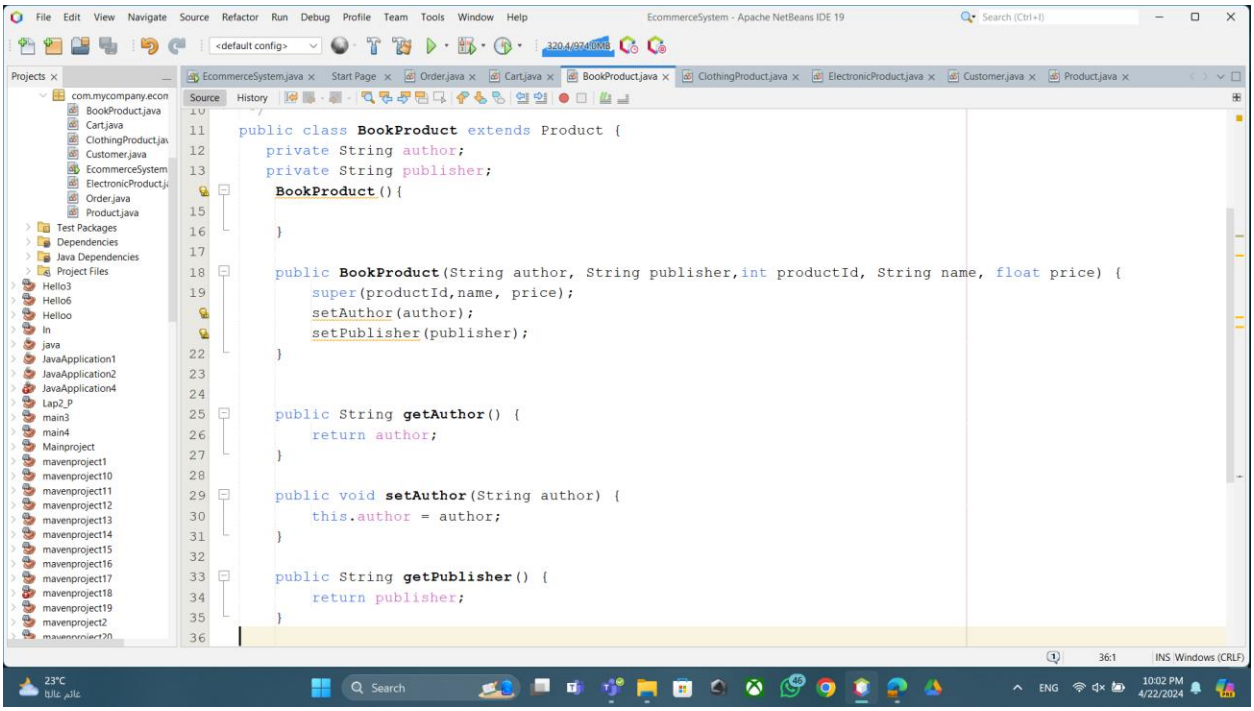
```
public class Cart {
    private int customerId,nProducts;
    private Product products[];

    public Cart(int customerId , int nProducts){
        this.customerId = customerId ;
        this.products = new Product[nProducts];
    }



    public int getCustomerId() {
        return customerId;
    }

    public void setCustomerId(int customerId) {
        if(customerId>0){
           this.customerId = customerId;

        }
        else
            this.customerId = Math.abs(a: customerId);


    }
```



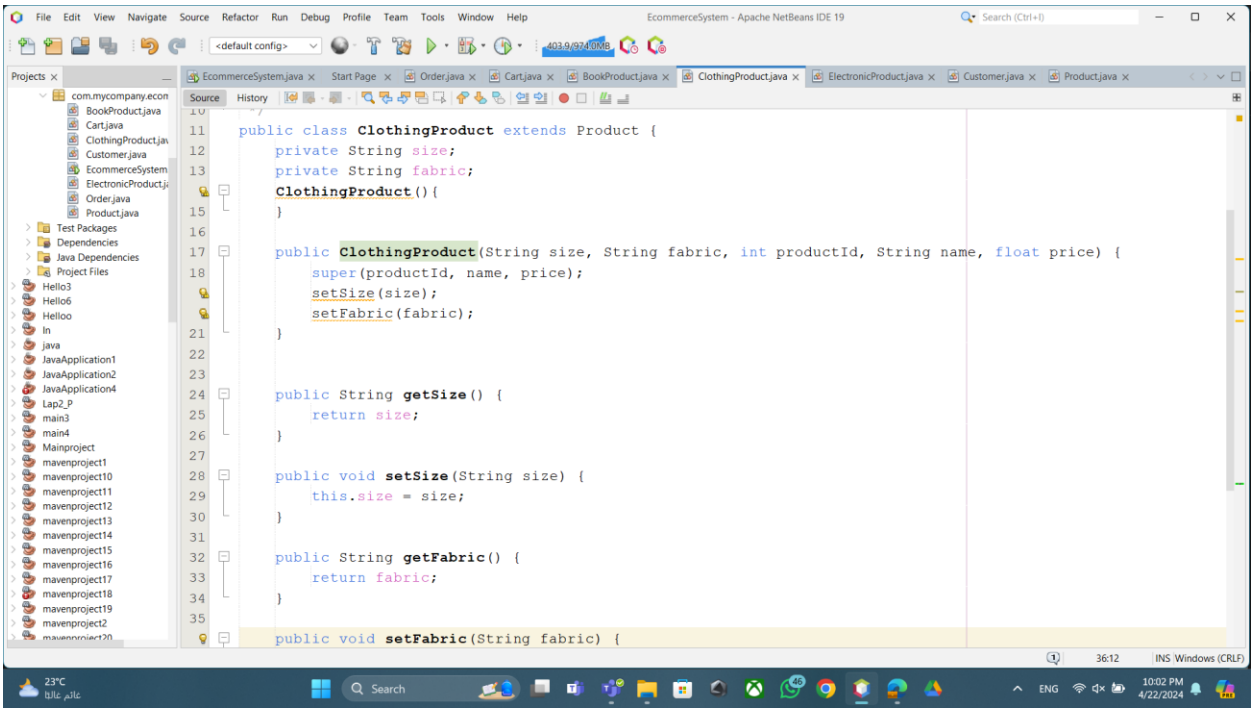
```
    public int getnProducts() {
        return nProducts;
    }


    public void SetProducts(int size)
    {
        this.products = new Product[size];
    }

    public void setnProducts(int nProducts) {
     if(nProducts>0){
        this.nProducts = nProducts;

     }
     else
         this.nProducts = Math.abs(a: nProducts);

      SetProducts(size: this.nProducts);

    }

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



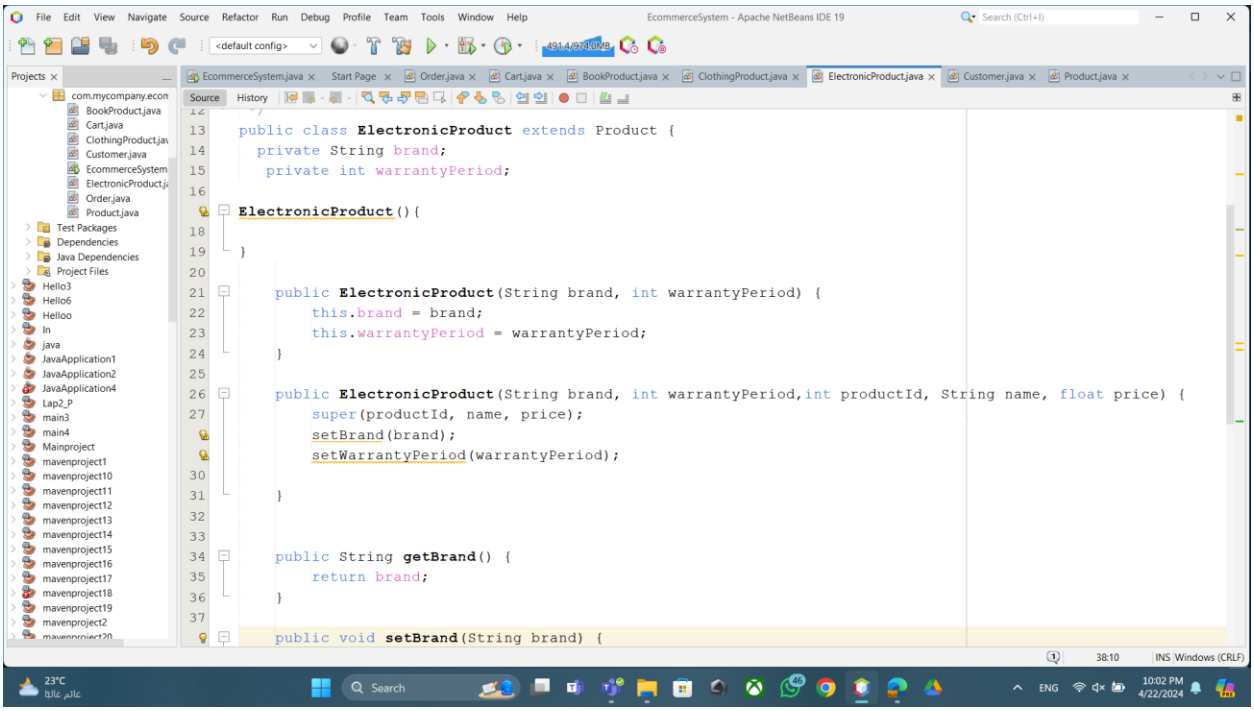
```
    public void setProducts(Product[] products) {
        this.products = products;
    }


    public void addproduct(Product product,int n){
          this.products[n]=product;

    }
    public void removeProduct(int n){
        products[n]=null;
    }
    public double calculatelPrice(){
        double totalprice=0;
        for (int i = 0; i < nProducts; i++) {
           totalprice+=products[i].getPrice();
        }
        return totalprice;

    }
    public void placeorder(Order order1){
        order1.setCustomerId(customerId:this.customerId);
        order1.setProducts(products);
    }
}
```



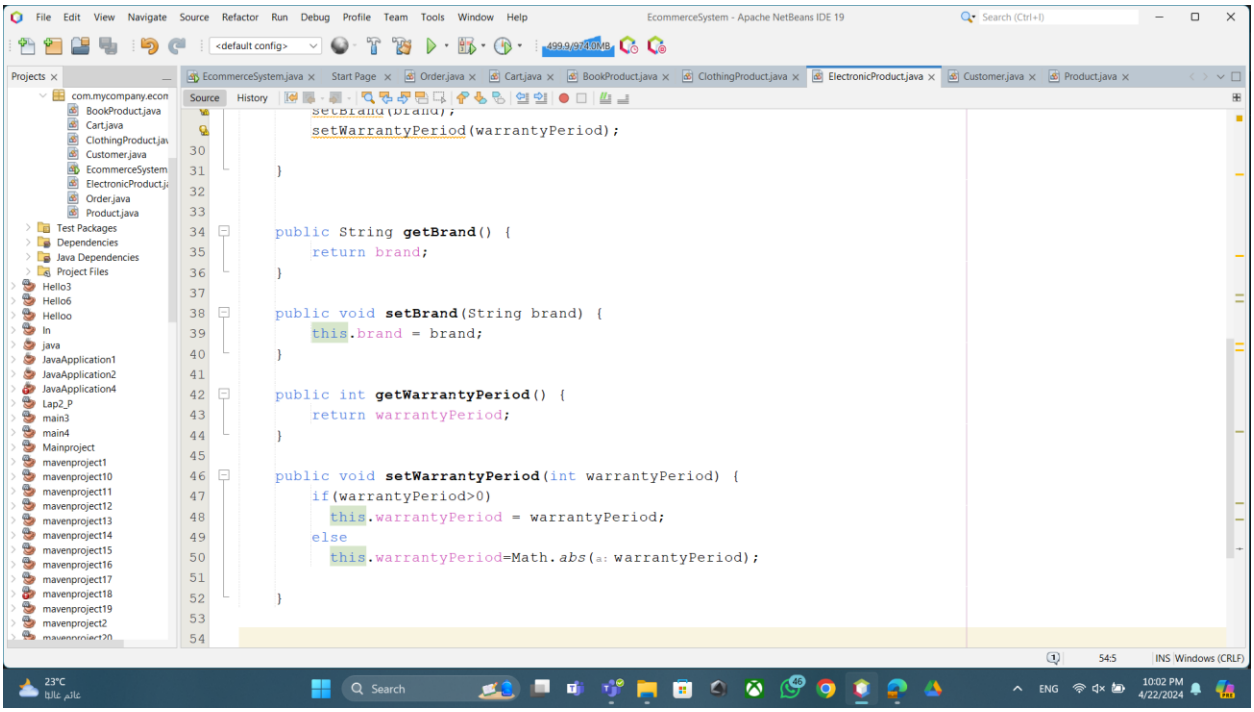
```java
public class BookProduct extends Product {
    private String author;
    private String publisher;
    BookProduct(){

    }

    public BookProduct(String author, String publisher,int productId, String name, float price) {
        super(productId,name, price);
        setAuthor(author);
        setPublisher(publisher);
    }


    public String getAuthor() {
        return author;
    }

    public void setAuthor(String author) {
        this.author = author;
    }

    public String getPublisher() {
        return publisher;
    }
```



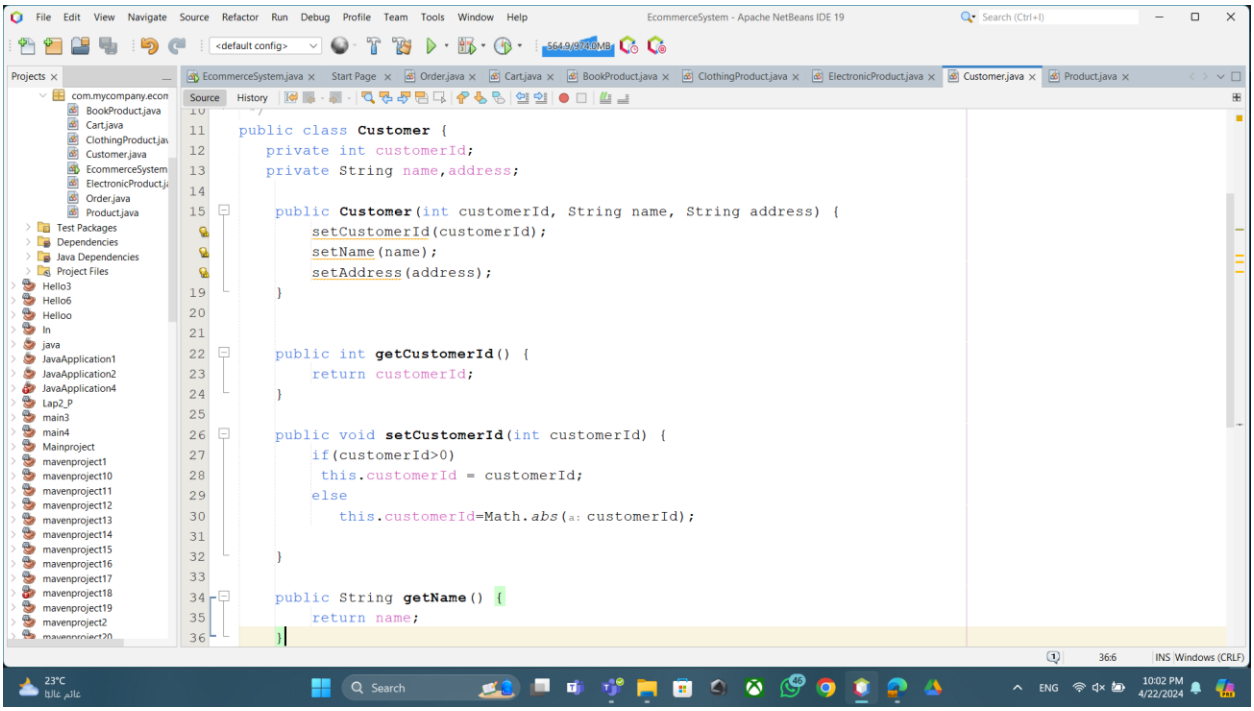
```java
public class ClothingProduct extends Product {
    private String size;
    private String fabric;
    ClothingProduct(){
    }

    public ClothingProduct(String size, String fabric, int productId, String name, float price) {
        super(productId, name, price);
        setSize(size);
        setFabric(fabric);
    }


    public String getSize() {
        return size;
    }

    public void setSize(String size) {
        this.size = size;
    }

    public String getFabric() {
        return fabric;
    }

    public void setFabric(String fabric) {
```



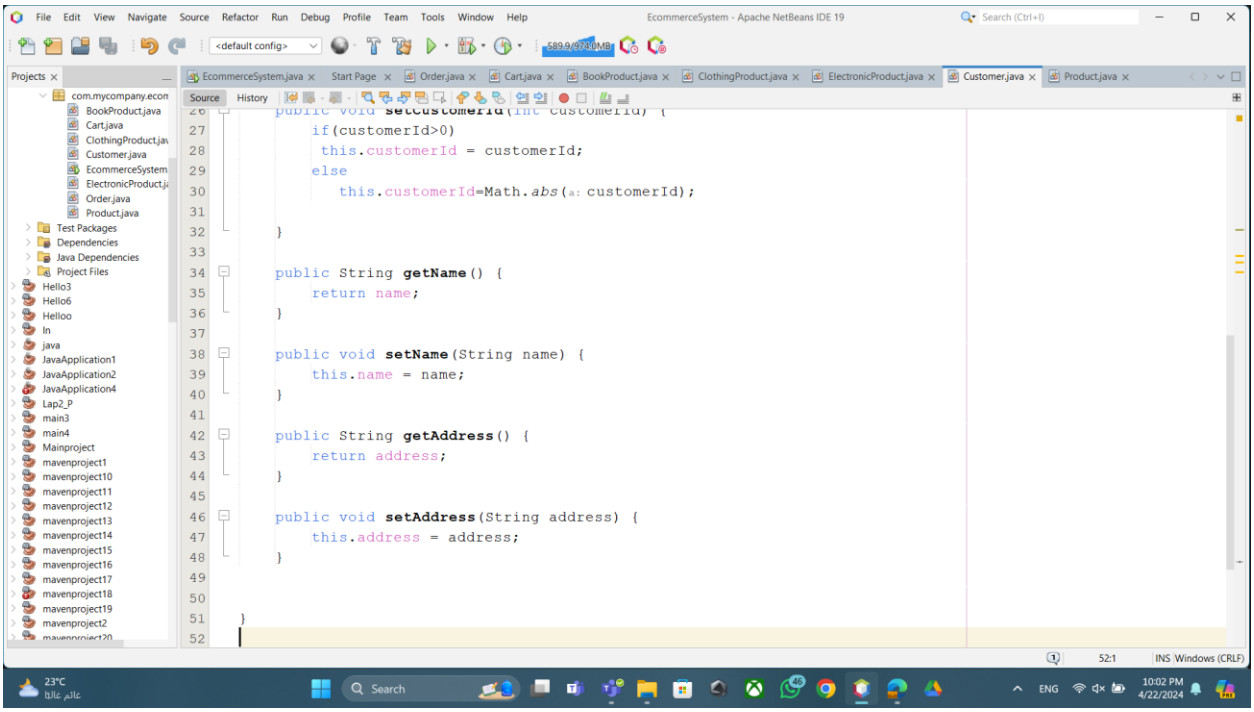
```
13  public class ElectronicProduct extends Product {
14    private String brand;
15     private int warrantyPeriod;
16
17  ElectronicProduct(){
18
19  }
20
21      public ElectronicProduct(String brand, int warrantyPeriod) {
22          this.brand = brand;
23          this.warrantyPeriod = warrantyPeriod;
24      }
25
26      public ElectronicProduct(String brand, int warrantyPeriod,int productId, String name, float price) {
27          super(productId, name, price);
            setBrand(brand);
            setWarrantyPeriod(warrantyPeriod);
30
31      }
32
33
34      public String getBrand() {
35          return brand;
36      }
37
      public void setBrand(String brand) {
```



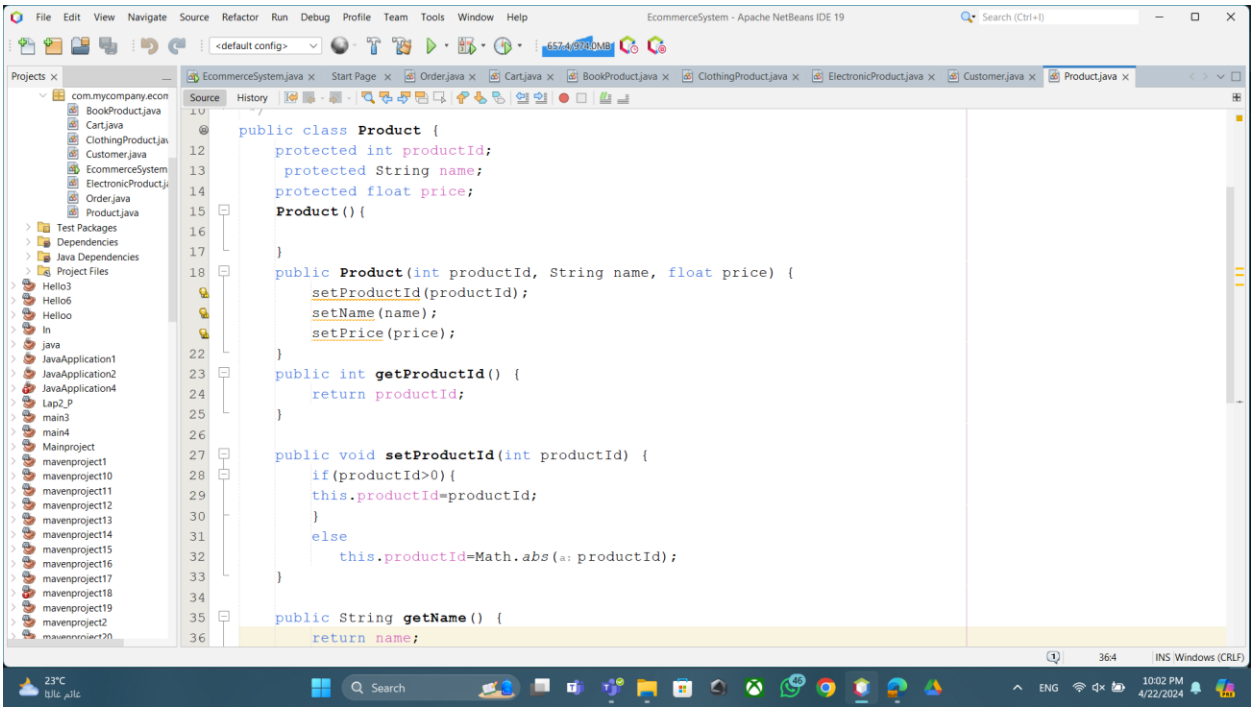
```
            setWarrantyPeriod(warrantyPeriod);
30
31      }
32
33
34      public String getBrand() {
35          return brand;
36      }
37
38      public void setBrand(String brand) {
39          this.brand = brand;
40      }
41
42      public int getWarrantyPeriod() {
43          return warrantyPeriod;
44      }
45
46      public void setWarrantyPeriod(int warrantyPeriod) {
47          if(warrantyPeriod>0)
48            this.warrantyPeriod = warrantyPeriod;
49          else
50            this.warrantyPeriod=Math.abs(a: warrantyPeriod);
51
52      }
53
54
```



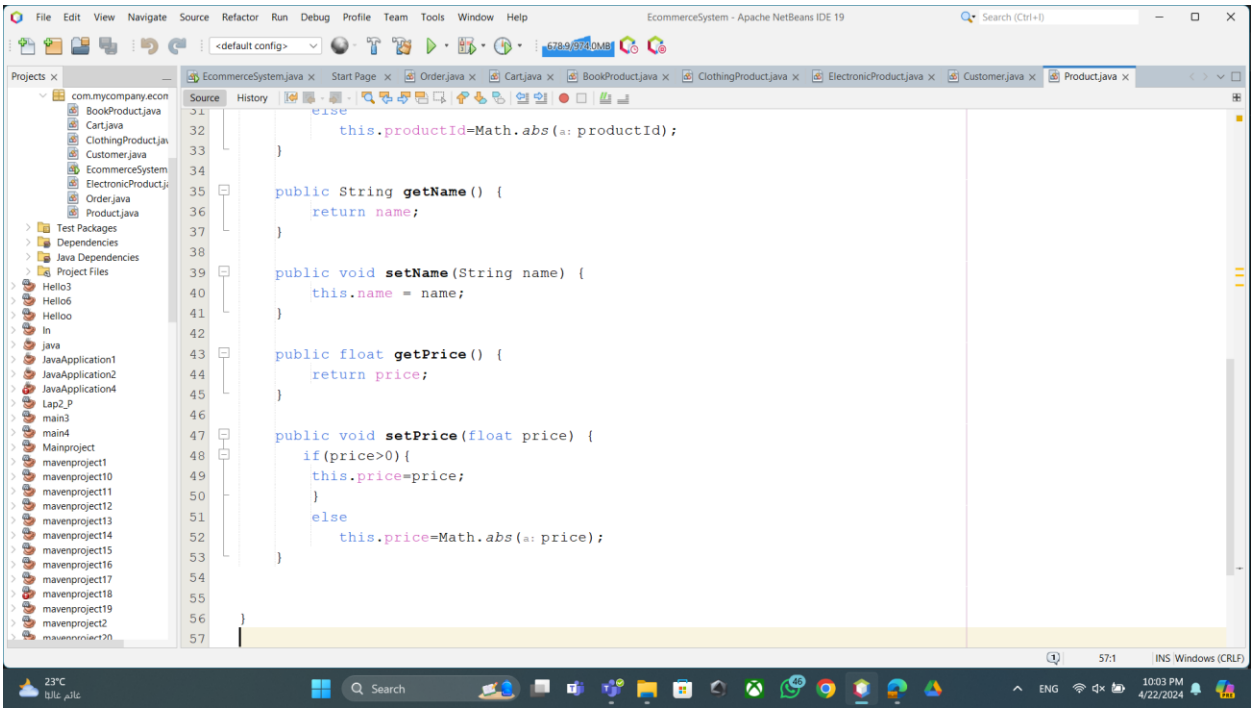
```java
public class Customer {
    private int customerId;
    private String name,address;

    public Customer(int customerId, String name, String address) {
        setCustomerId(customerId);
        setName(name);
        setAddress(address);
    }

    public int getCustomerId() {
        return customerId;
    }

    public void setCustomerId(int customerId) {
        if(customerId>0)
         this.customerId = customerId;
        else
           this.customerId=Math.abs(a: customerId);

    }

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



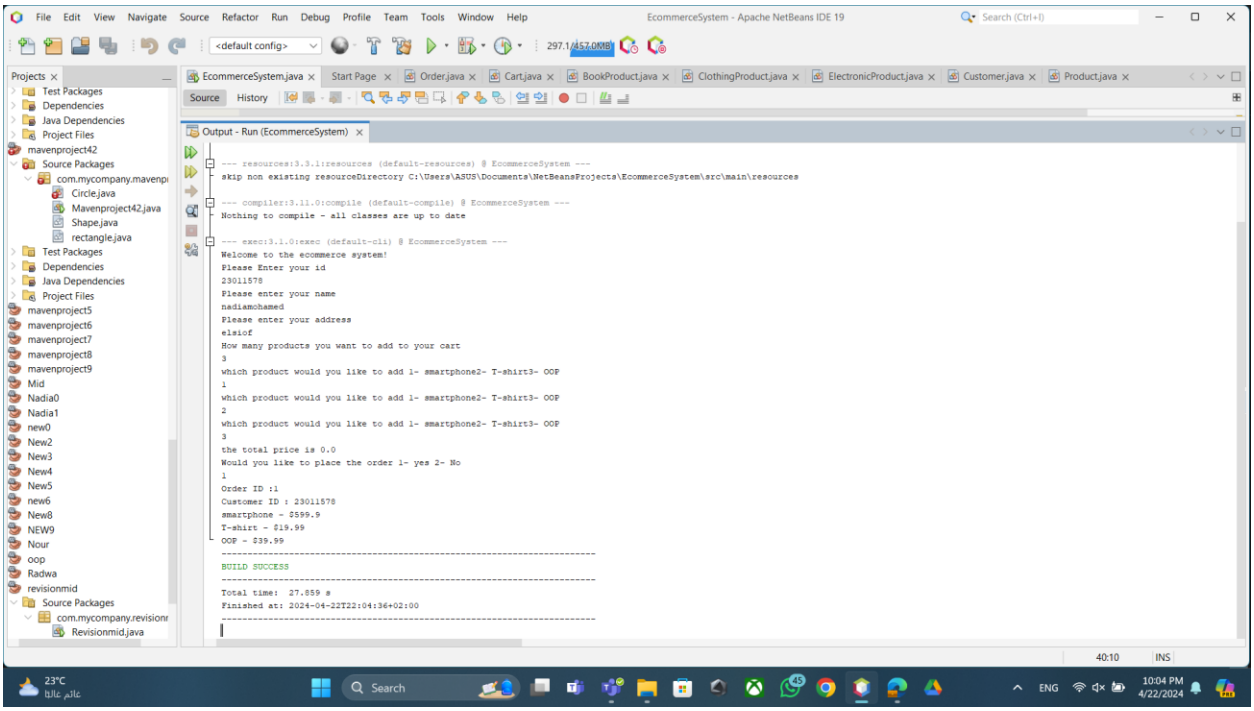
```java
        if(customerId>0)
         this.customerId = customerId;
        else
           this.customerId=Math.abs(a: customerId);

    }

    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;
    }


}
```



```
public class Product {
    protected int productId;
     protected String name;
    protected float price;
    Product(){

    }
    public Product(int productId, String name, float price) {
        setProductId(productId);
        setName(name);
        setPrice(price);
    }
    public int getProductId() {
        return productId;
    }

    public void setProductId(int productId) {
        if(productId>0){
        this.productId=productId;
        }
        else
           this.productId=Math.abs(a: productId);
    }

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



```
           this.productId=Math.abs(a: productId);
    }

    public String getName() {
        return name;
    }

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

    public float getPrice() {
        return price;
    }

    public void setPrice(float price) {
       if(price>0){
        this.price=price;
        }
        else
           this.price=Math.abs(a: price);
    }


}
```


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
EcommerceSystem - Apache NetBeans IDE 19
Search (Ctrl+I)
<default config>
297.1/457.0MB
Projects
Test Packages
Dependencies
Java Dependencies
Project Files
mavenproject42
Source Packages
com.mycompany.mavenpr
Circle.java
Mavenproject42.java
Shape.java
rectangle.java
Test Packages
Dependencies
Java Dependencies
Project Files
mavenproject5
mavenproject6
mavenproject7
mavenproject8
mavenproject9
Mid
Nadia0
Nadia1
new0
New2
New3
New4
New5
new6
New8
NEW9
Nour
oop
Radwa
revisionmid
Source Packages
com.mycompany.revisionr
Revisionmid.java
EcommerceSystem.java
Start Page
Order.java
Cart.java
BookProduct.java
ClothingProduct.java
ElectronicProduct.java
Customer.java
Product.java
Source
History
Output - Run (EcommerceSystem)
--- resources:3.3.1:resources (default-resources) @ EcommerceSystem ---
skip non existing resourceDirectory C:\Users\ASUS\Documents\NetBeansProjects\EcommerceSystem\src\main\resources
--- compiler:3.11.0:compile (default-compile) @ EcommerceSystem ---
Nothing to compile - all classes are up to date
--- exec:3.1.0:exec (default-cli) @ EcommerceSystem ---
Welcome to the ecommerce system!
Please Enter your id
23011578
Please enter your name
nadiamohamed
Please enter your address
elsiof
How many products you want to add to your cart
3
which product would you like to add 1- smartphone2- T-shirt3- OOP
1
which product would you like to add 1- smartphone2- T-shirt3- OOP
2
which product would you like to add 1- smartphone2- T-shirt3- OOP
3
the total price is 0.0
Would you like to place the order 1- yes 2- No
1
Order ID :1
Customer ID : 23011578
smartphone - $599.9
T-shirt - $19.99
OOP - $39.99
BUILD SUCCESS
Total time: 27.859 s
Finished at: 2024-04-22T22:04:36+02:00
40:10
INS
23°C
Search
ENG
10:04 PM
4/22/2024