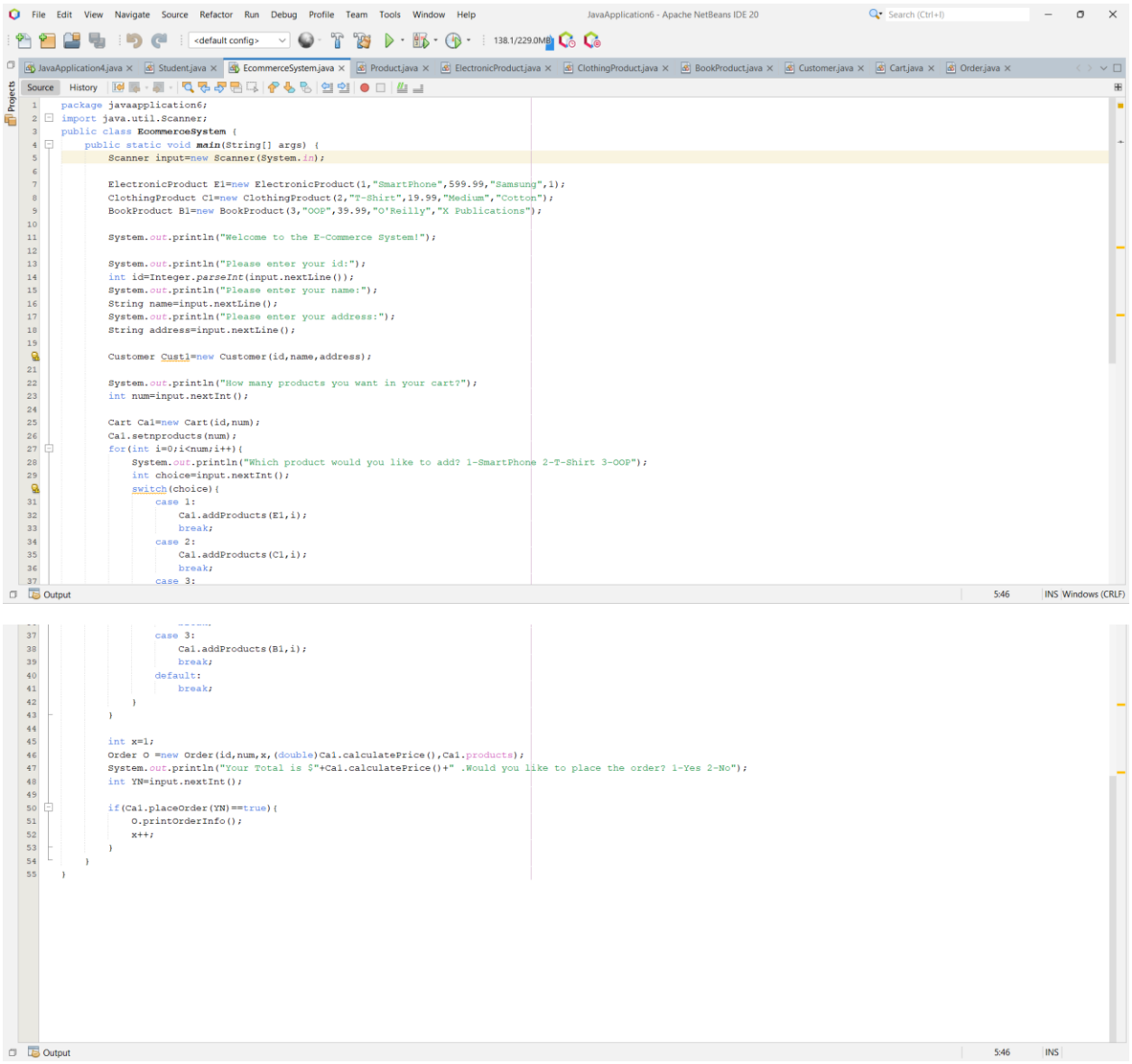
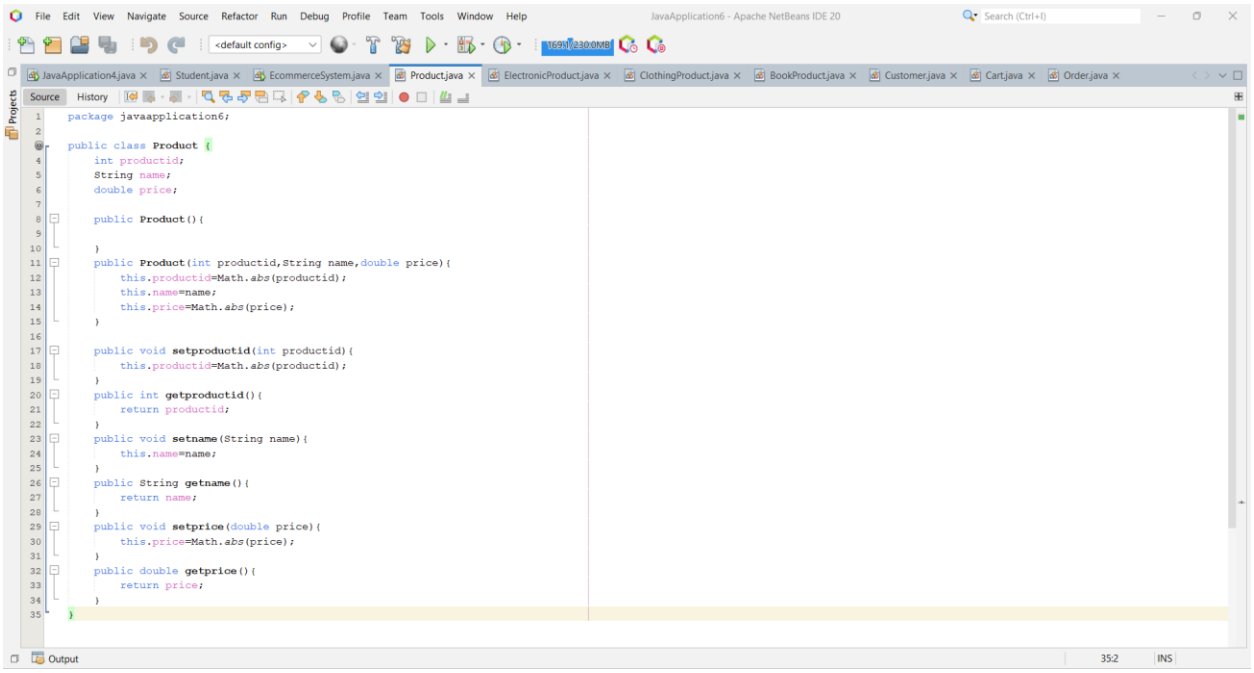
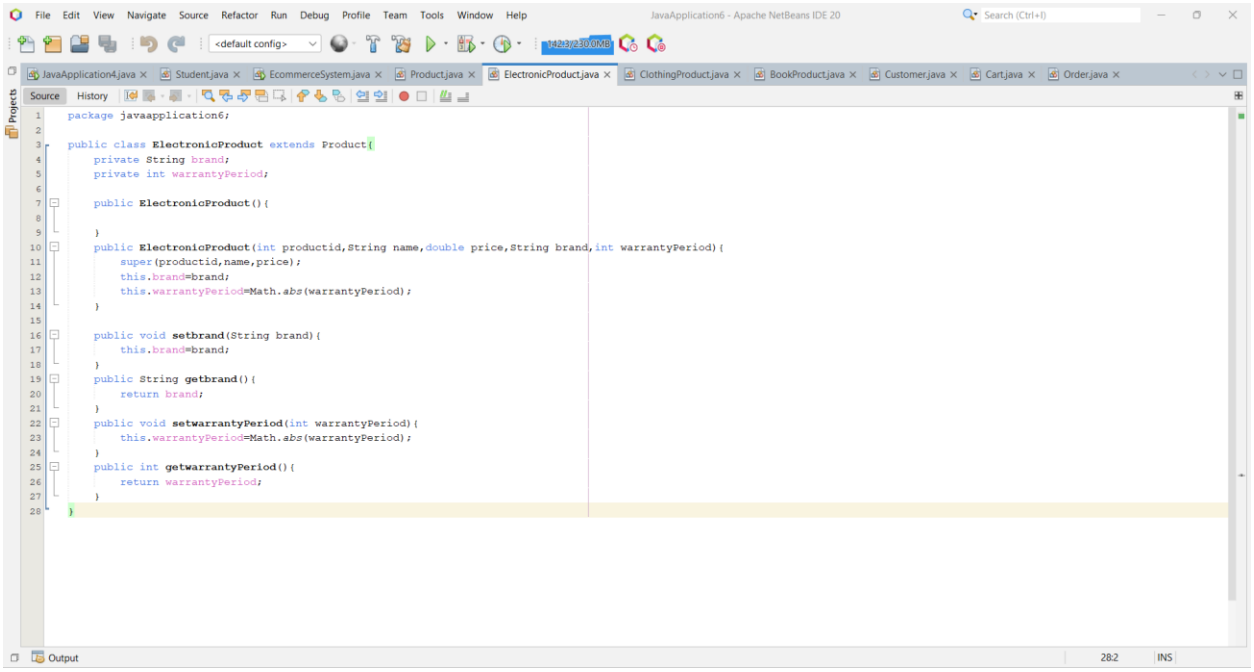
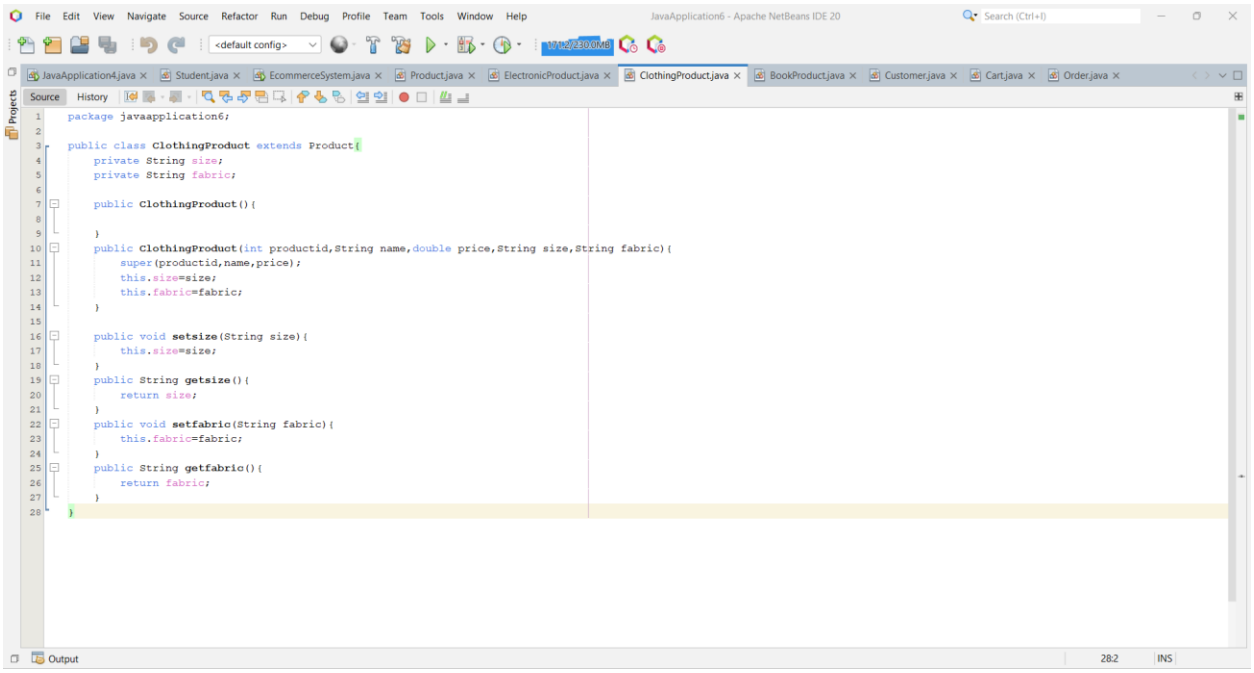


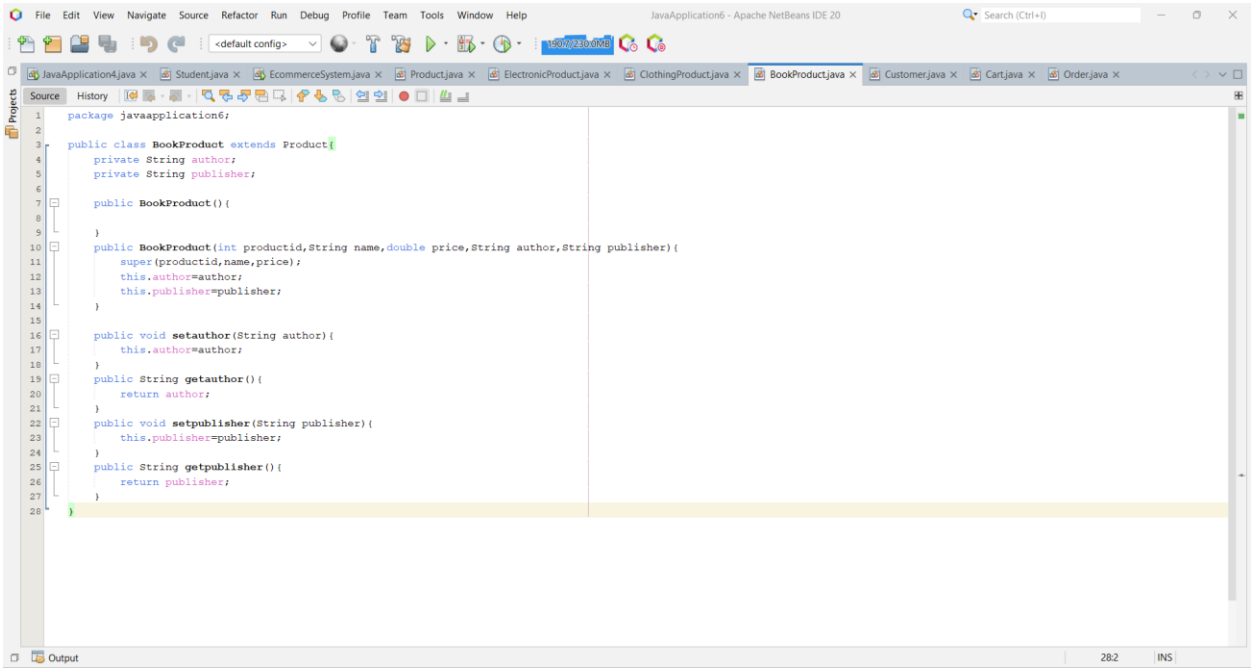

```java
package javaapplication6;
import java.util.Scanner;
public class EcommerceSystem {
    public static void main(String[] args) {
        Scanner input=new Scanner(System.in);

        ElectronicProduct E1=new ElectronicProduct(1,"SmartPhone",599.99,"Samsung",1);
        ClothingProduct C1=new ClothingProduct(2,"T-Shirt",19.99,"Medium","Cotton");
        BookProduct B1=new BookProduct(3,"OOP",39.99,"O'Reilly","X Publications");

        System.out.println("Welcome to the E-Commerce System!");

        System.out.println("Please enter your id:");
        int id=Integer.parseInt(input.nextLine());
        System.out.println("Please enter your name:");
        String name=input.nextLine();
        System.out.println("Please enter your address:");
        String address=input.nextLine();

        Customer Cust1=new Customer(id,name,address);

        System.out.println("How many products you want in your cart?");
        int num=input.nextInt();

        Cart Ca1=new Cart(id,num);
        Ca1.setnproducts(num);
        for(int i=0;i<num;i++){
            System.out.println("Which product would you like to add? 1-SmartPhone 2-T-Shirt 3-OOP");
            int choice=input.nextInt();
            switch(choice){
                case 1:
                    Ca1.addProducts(E1,i);
                    break;
                case 2:
                    Ca1.addProducts(C1,i);
                    break;
                case 3:
                    Ca1.addProducts(B1,i);
                    break;
                default:
                    break;
            }
        }

        int x=1;
        Order O =new Order(id,num,x,(double)Ca1.calculatePrice(),Ca1.products);
        System.out.println("Your Total is $"+Ca1.calculatePrice()+" .Would you like to place the order? 1-Yes 2-No");
        int YN=input.nextInt();

        if(Ca1.placeOrder(YN)==true){
            O.printOrderInfo();
            x++;
        }
    }
}
```


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
JavaApplication6 - Apache NetBeans IDE 20
Search (Ctrl+I)
<default config>
JavaApplication4.java
Student.java
EcommerceSystem.java
Product.java
ElectronicProduct.java
ClothingProduct.java
BookProduct.java
Customer.java
Cart.java
Order.java
Source
History
Projects
package javaapplication6;
public class Product {
int productid;
String name;
double price;
public Product(){
}
public Product(int productid,String name,double price){
this.productid=Math.abs(productid);
this.name=name;
this.price=Math.abs(price);
}
public void setproductid(int productid){
this.productid=Math.abs(productid);
}
public int getproductid(){
return productid;
}
public void setname(String name){
this.name=name;
}
public String getname(){
return name;
}
public void setprice(double price){
this.price=Math.abs(price);
}
public double getprice(){
return price;
}
}
Output
35:2
INS

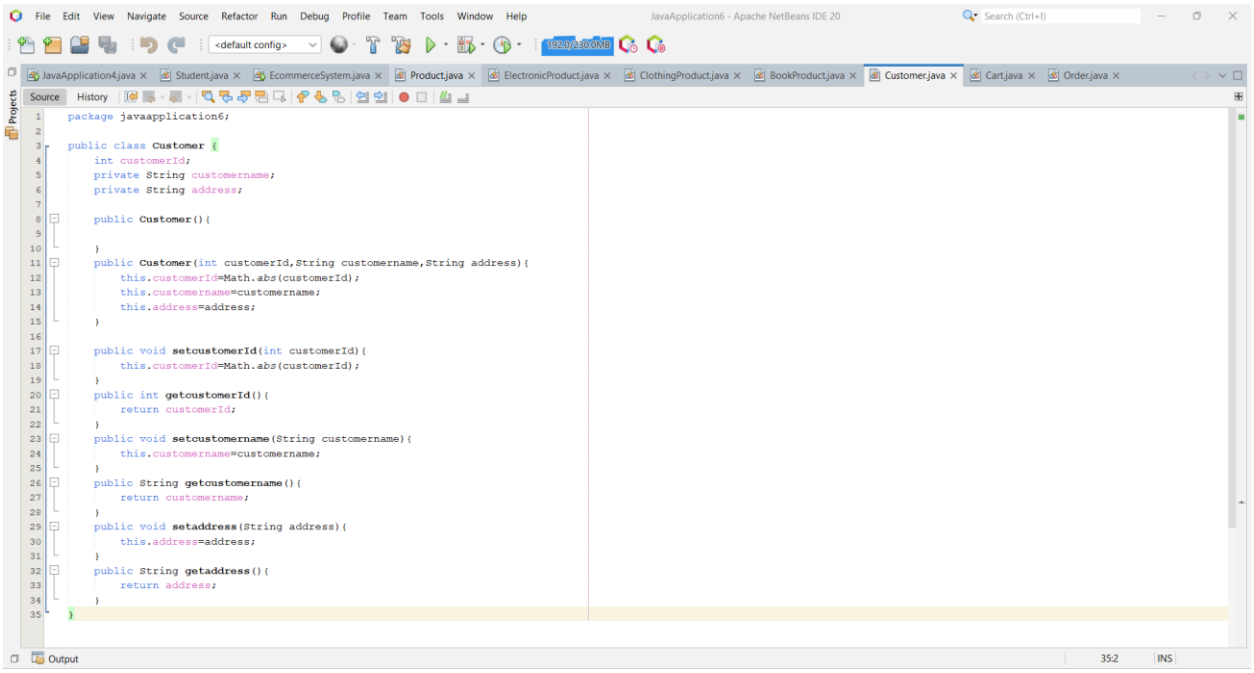

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
JavaApplication6 - Apache NetBeans IDE 20
Search (Ctrl+I)
<default config>
JavaApplication4.java
Student.java
EcommerceSystem.java
Product.java
ElectronicProduct.java
ClothingProduct.java
BookProduct.java
Customer.java
Cart.java
Order.java
Source
History
Projects
package javaapplication6;
public class ElectronicProduct extends Product{
private String brand;
private int warrantyPeriod;
public ElectronicProduct(){
}
public ElectronicProduct(int productid,String name,double price,String brand,int warrantyPeriod){
super(productid,name,price);
this.brand=brand;
this.warrantyPeriod=Math.abs(warrantyPeriod);
}
public void setbrand(String brand){
this.brand=brand;
}
public String getbrand(){
return brand;
}
public void setwarrantyPeriod(int warrantyPeriod){
this.warrantyPeriod=Math.abs(warrantyPeriod);
}
public int getwarrantyPeriod(){
return warrantyPeriod;
}
}
Output
28:2
INS



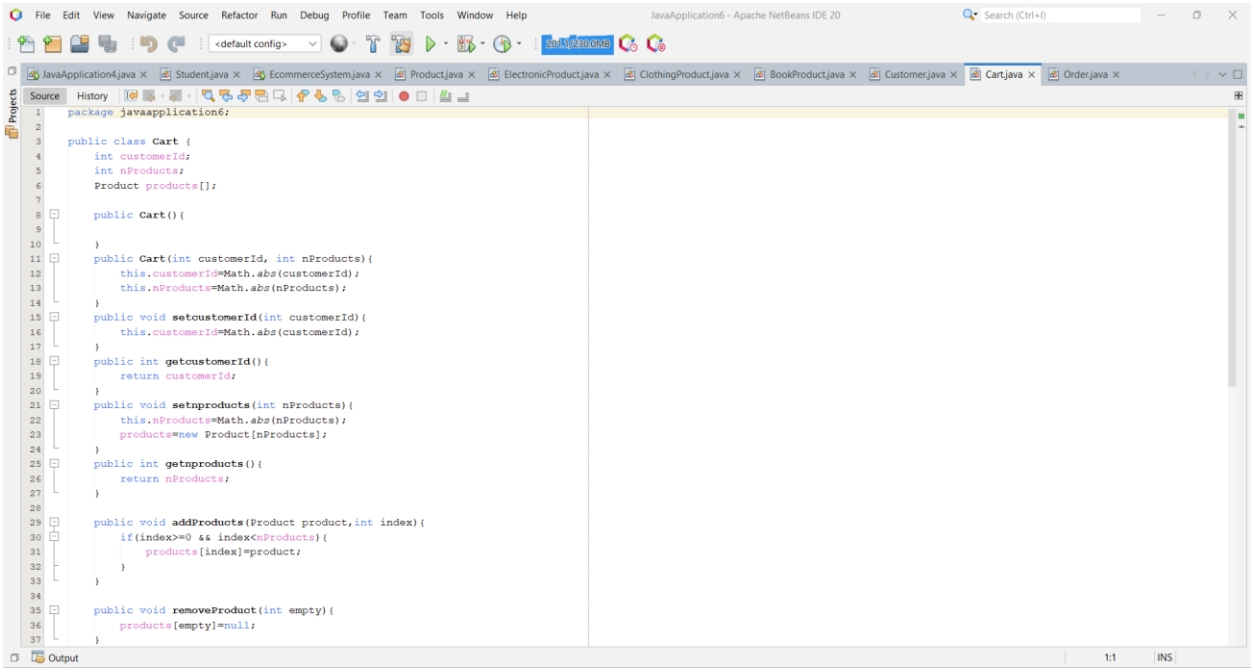

```java
package javaapplication6;

public class ClothingProduct extends Product{
    private String size;
    private String fabric;

    public ClothingProduct(){

    }
    public ClothingProduct(int productid,String name,double price,String size,String fabric){
        super(productid,name,price);
        this.size=size;
        this.fabric=fabric;
    }

    public void setsize(String size){
        this.size=size;
    }
    public String getsize(){
        return size;
    }
    public void setfabric(String fabric){
        this.fabric=fabric;
    }
    public String getfabric(){
        return fabric;
    }
}
```




```java
package javaapplication6;

public class BookProduct extends Product{
    private String author;
    private String publisher;

    public BookProduct(){

    }
    public BookProduct(int productid,String name,double price,String author,String publisher){
        super(productid,name,price);
        this.author=author;
        this.publisher=publisher;
    }

    public void setauthor(String author){
        this.author=author;
    }
    public String getauthor(){
        return author;
    }
    public void setpublisher(String publisher){
        this.publisher=publisher;
    }
    public String getpublisher(){
        return publisher;
    }
}
```



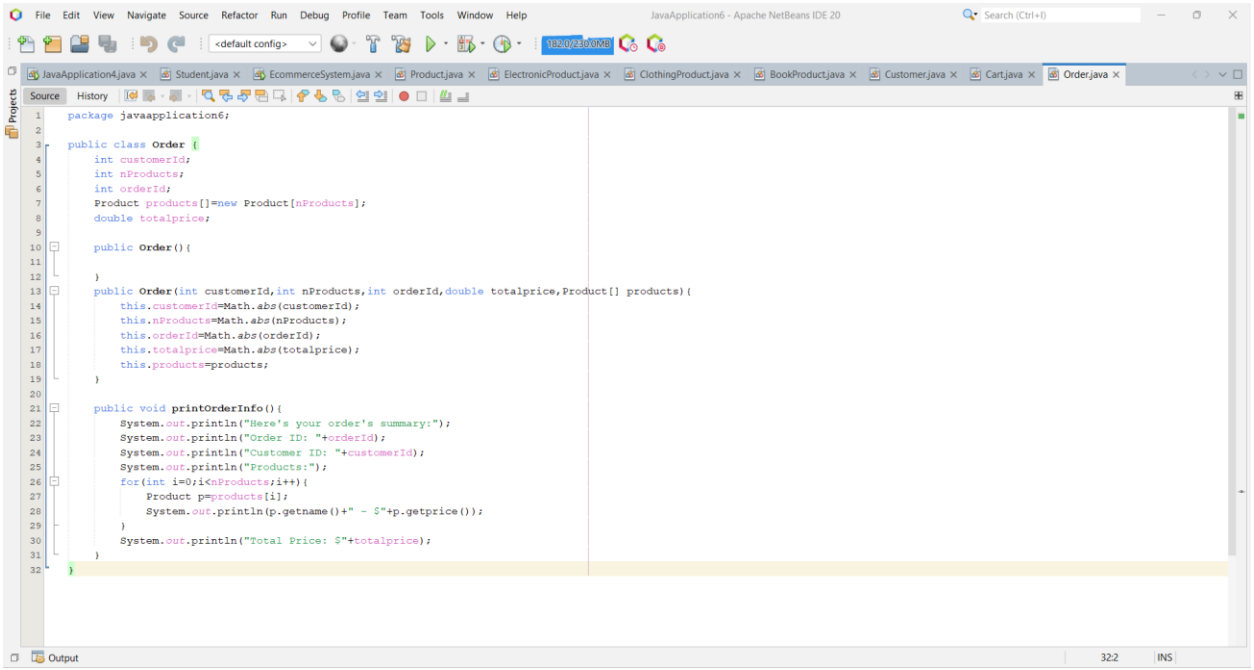

```java
package javaapplication6;

public class Customer {
    int customerId;
    private String customername;
    private String address;

    public Customer(){

    }
    public Customer(int customerId,String customername,String address){
        this.customerId=Math.abs(customerId);
        this.customername=customername;
        this.address=address;
    }

    public void setcustomerId(int customerId){
        this.customerId=Math.abs(customerId);
    }
    public int getcustomerId(){
        return customerId;
    }
    public void setcustomername(String customername){
        this.customername=customername;
    }
    public String getcustomername(){
        return customername;
    }
    public void setaddress(String address){
        this.address=address;
    }
    public String getaddress(){
        return address;
    }
}
```



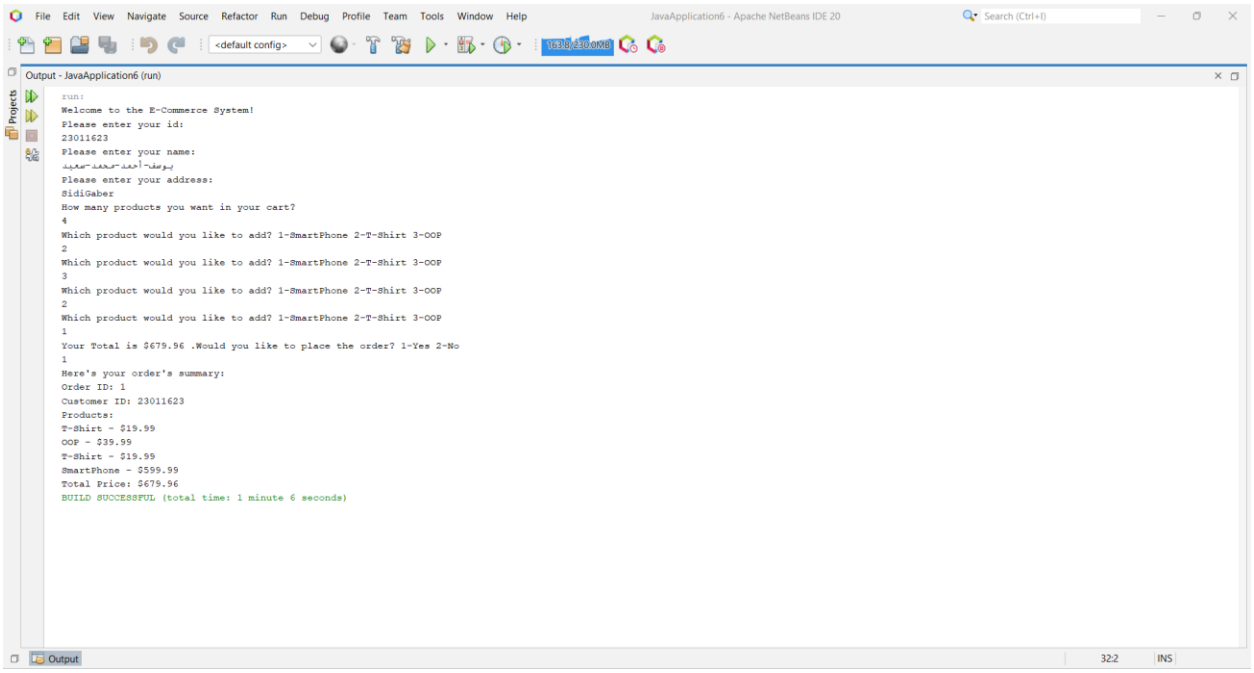

```java
package javaapplication6;

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

    public Cart(){

    }
    public Cart(int customerId, int nProducts){
        this.customerId=Math.abs(customerId);
        this.nProducts=Math.abs(nProducts);
    }
    public void setcustomerId(int customerId){
        this.customerId=Math.abs(customerId);
    }
    public int getcustomerId(){
        return customerId;
    }
    public void setnproducts(int nProducts){
        this.nProducts=Math.abs(nProducts);
        products=new Product[nProducts];
    }
    public int getnproducts(){
        return nProducts;
    }

    public void addProducts(Product product,int index){
        if(index>=0 && index<nProducts){
            products[index]=product;
        }
    }

    public void removeProduct(int empty){
        products[empty]=null;
    }
```

```
38
39      public double calculatePrice(){
40          double sum=0;
41          for(int i=0;i<nProducts;i++){
42              Product p=products[i];
43              if(p!=null){
44                  sum+=p.getprice();
45              }
46          }
47          return sum;
48      }
49
50      public boolean placeOrder(int choise){
51          boolean option =true;
52          if(choise==1){
53              option=true;
54          }else if(choise==2){
55              option=false;
56          }
57          return option;
58      }
59  }
```

Output 1:1 INS




```
1   package javaapplication6;
2
3   public class Order {
4       int customerId;
5       int nProducts;
6       int orderId;
7       Product products[]=new Product[nProducts];
8       double totalprice;
9
10      public Order(){
11
12      }
13      public Order(int customerId,int nProducts,int orderId,double totalprice,Product[] products){
14          this.customerId=Math.abs(customerId);
15          this.nProducts=Math.abs(nProducts);
16          this.orderId=Math.abs(orderId);
17          this.totalprice=Math.abs(totalprice);
18          this.products=products;
19      }
20
21      public void printOrderInfo(){
22          System.out.println("Here's your order's summary:");
23          System.out.println("Order ID: "+orderId);
24          System.out.println("Customer ID: "+customerId);
25          System.out.println("Products:");
26          for(int i=0;i<nProducts;i++){
27              Product p=products[i];
28              System.out.println(p.getname()+" - $"+p.getprice());
29          }
30          System.out.println("Total Price: $"+totalprice);
31      }
32  }
```


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
JavaApplication6 - Apache NetBeans IDE 20
Search (Ctrl+I)
<default config>
Output - JavaApplication6 (run)
run:
Welcome to the E-Commerce System!
Please enter your id:
23011623
Please enter your name:
يوسف-أحمد-محمد-سعيد
Please enter your address:
SidiGaber
How many products you want in your cart?
4
Which product would you like to add? 1-SmartPhone 2-T-Shirt 3-OOP
2
Which product would you like to add? 1-SmartPhone 2-T-Shirt 3-OOP
3
Which product would you like to add? 1-SmartPhone 2-T-Shirt 3-OOP
2
Which product would you like to add? 1-SmartPhone 2-T-Shirt 3-OOP
1
Your Total is $679.96 .Would you like to place the order? 1-Yes 2-No
1
Here's your order's summary:
Order ID: 1
Customer ID: 23011623
Products:
T-Shirt - $19.99
OOP - $39.99
T-Shirt - $19.99
SmartPhone - $599.99
Total Price: $679.96
BUILD SUCCESSFUL (total time: 1 minute 6 seconds)
Output
32:2
INS