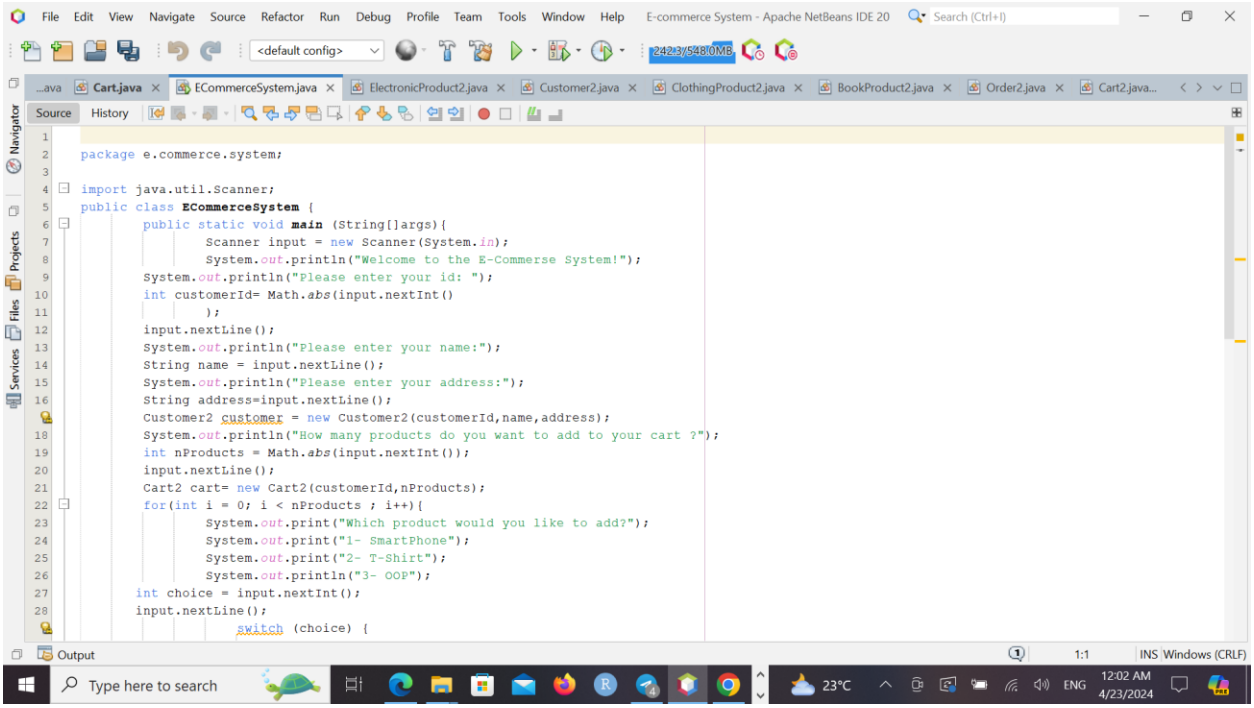
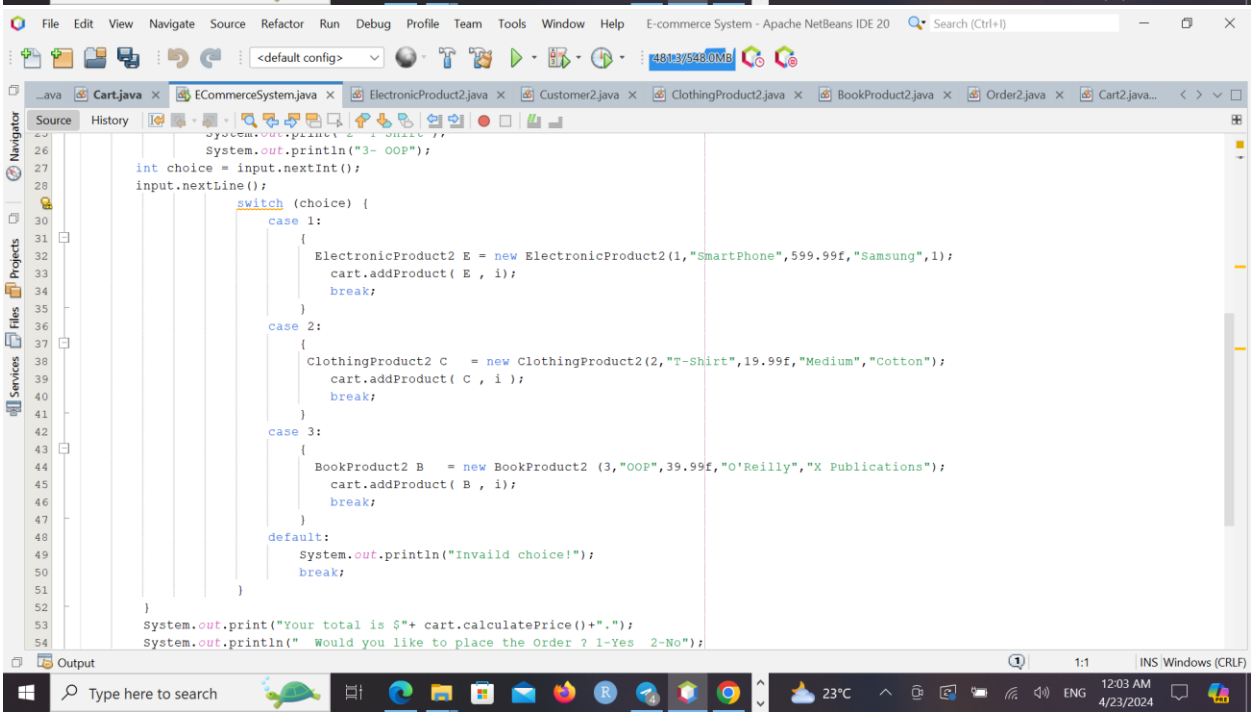
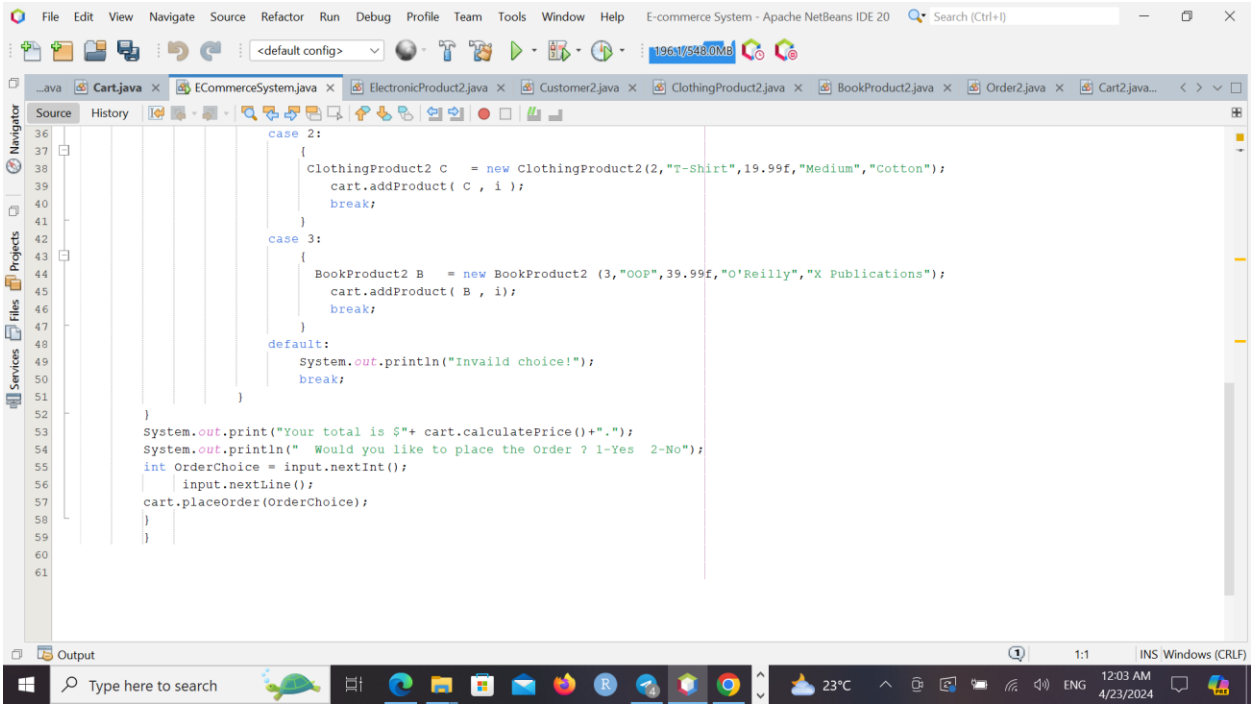


```java
package e.commerce.system;

import java.util.Scanner;
public class ECommerceSystem {
        public static void main (String[]args){
                Scanner input = new Scanner(System.in);
                System.out.println("Welcome to the E-Commerse System!");
        System.out.println("Please enter your id: ");
        int customerId= Math.abs(input.nextInt()
                );
        input.nextLine();
        System.out.println("Please enter your name:");
        String name = input.nextLine();
        System.out.println("Please enter your address:");
        String address=input.nextLine();
        Customer2 customer = new Customer2(customerId,name,address);
        System.out.println("How many products do you want to add to your cart ?");
        int nProducts = Math.abs(input.nextInt());
        input.nextLine();
        Cart2 cart= new Cart2(customerId,nProducts);
        for(int i = 0; i < nProducts ; i++){
                System.out.print("Which product would you like to add?");
                System.out.print("1- SmartPhone");
                System.out.print("2- T-Shirt");
                System.out.println("3- OOP");
      int choice = input.nextInt();
      input.nextLine();
                switch (choice) {
```



```java
                System.out.println("3- OOP");
      int choice = input.nextInt();
      input.nextLine();
                switch (choice) {
                    case 1:
                        {
                          ElectronicProduct2 E = new ElectronicProduct2(1,"SmartPhone",599.99f,"Samsung",1);
                            cart.addProduct( E , i);
                            break;
                        }
                    case 2:
                        {
                         ClothingProduct2 C   = new ClothingProduct2(2,"T-Shirt",19.99f,"Medium","Cotton");
                            cart.addProduct( C , i );
                            break;
                        }
                    case 3:
                        {
                          BookProduct2 B    = new BookProduct2 (3,"OOP",39.99f,"O'Reilly","X Publications");
                            cart.addProduct( B , i);
                            break;
                        }
                    default:
                        System.out.println("Invaild choice!");
                        break;
                }
        }
        System.out.print("Your total is $"+ cart.calculatePrice()+".");
        System.out.println("  Would you like to place the Order ? 1-Yes  2-No");
```


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
E-commerce System - Apache NetBeans IDE 20
Search (Ctrl+I)
<default config>
1961/548.0MB
...ava Cart.java ECommerceSystem.java ElectronicProduct2.java Customer2.java ClothingProduct2.java BookProduct2.java Order2.java Cart2.java...
Source History
Navigator
Projects
Files
Services
case 2:
{
ClothingProduct2 C = new ClothingProduct2(2,"T-Shirt",19.99f,"Medium","Cotton");
cart.addProduct(C , i);
break;
}
case 3:
{
BookProduct2 B = new BookProduct2 (3,"OOP",39.99f,"O'Reilly","X Publications");
cart.addProduct(B , i);
break;
}
default:
System.out.println("Invaild choice!");
break;
}
}
System.out.print("Your total is $"+ cart.calculatePrice()+".");
System.out.println(" Would you like to place the Order ? 1-Yes 2-No");
int OrderChoice = input.nextInt();
input.nextLine();
cart.placeOrder(OrderChoice);
}
}
Output
1:1
INS Windows (CRLF)
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ENG
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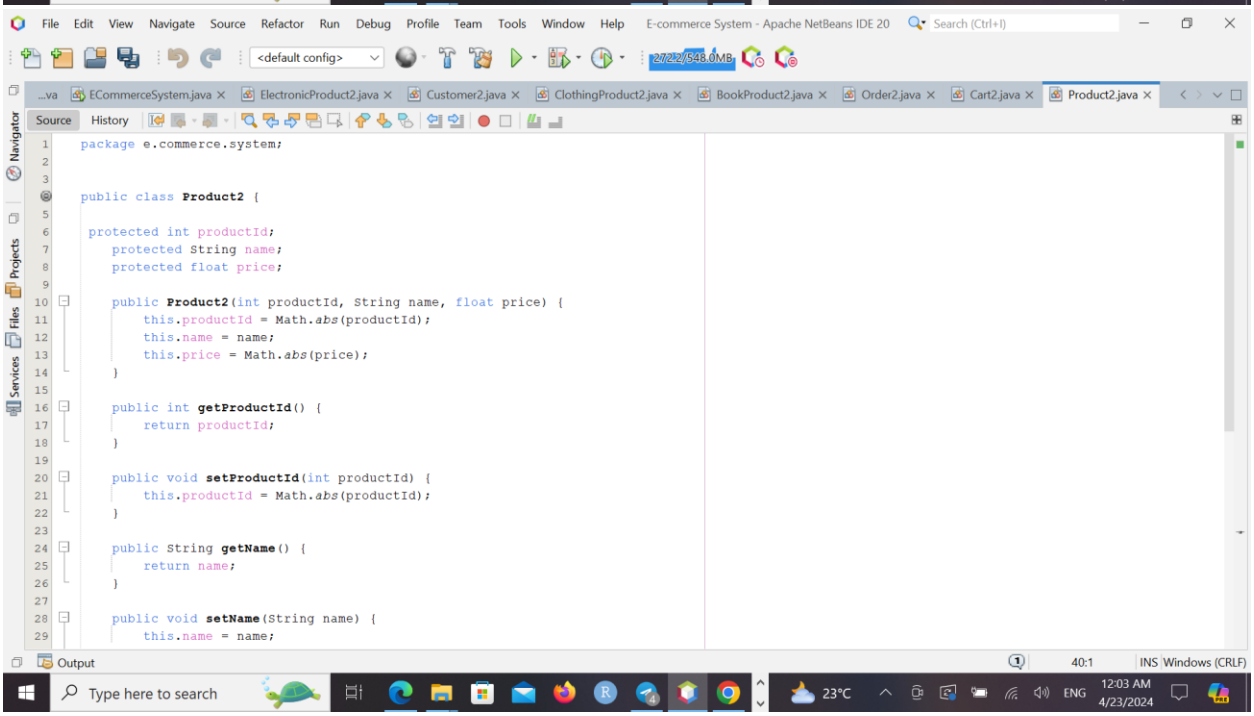
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E-commerce System - Apache NetBeans IDE 20
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...va ECommerceSystem.java ElectronicProduct2.java Customer2.java ClothingProduct2.java BookProduct2.java Order2.java Cart2.java Product2.java
Source History
Navigator
Projects
Files
Services
package e.commerce.system;
public class Product2 {
protected int productId;
protected String name;
protected float price;
public Product2(int productId, String name, float price) {
this.productId = Math.abs(productId);
this.name = name;
this.price = Math.abs(price);
}
public int getProductId() {
return productId;
}
public void setProductId(int productId) {
this.productId = Math.abs(productId);
}
public String getName() {
return name;
}
public void setName(String name) {
this.name = name;
Output
40:1
INS Windows (CRLF)
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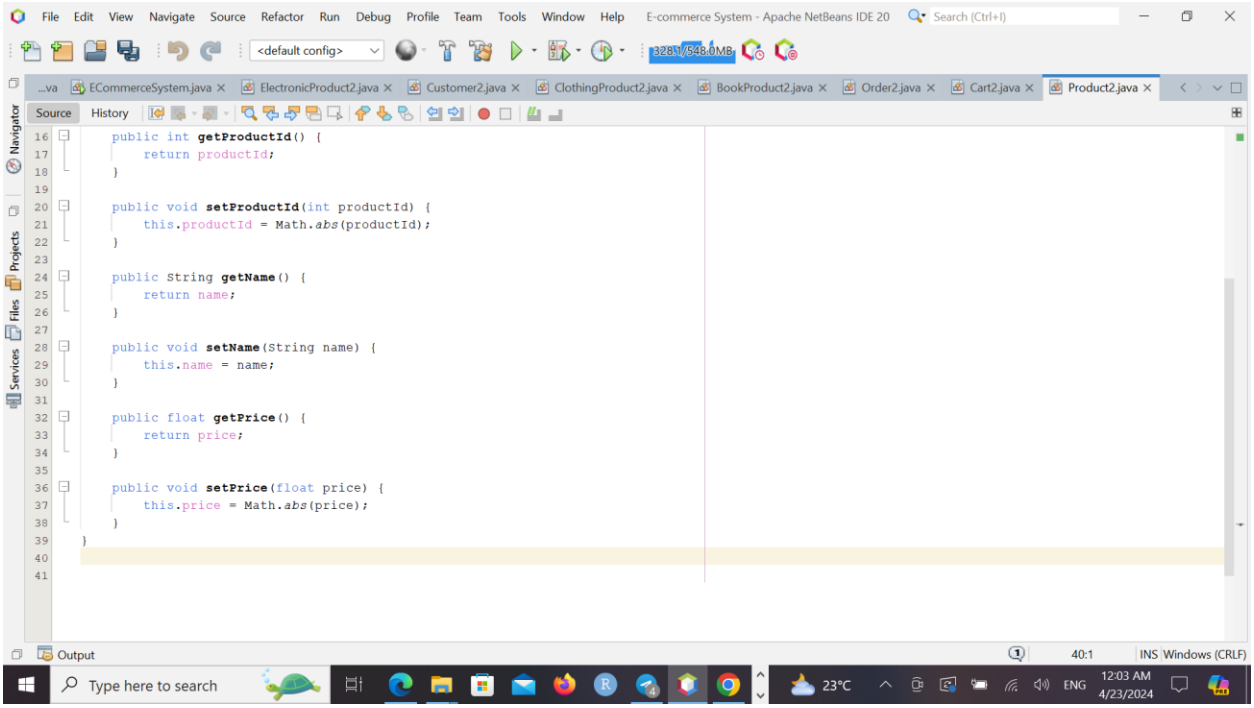
23°C
ENG
12:03 AM
4/23/2024


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
E-commerce System - Apache NetBeans IDE 20
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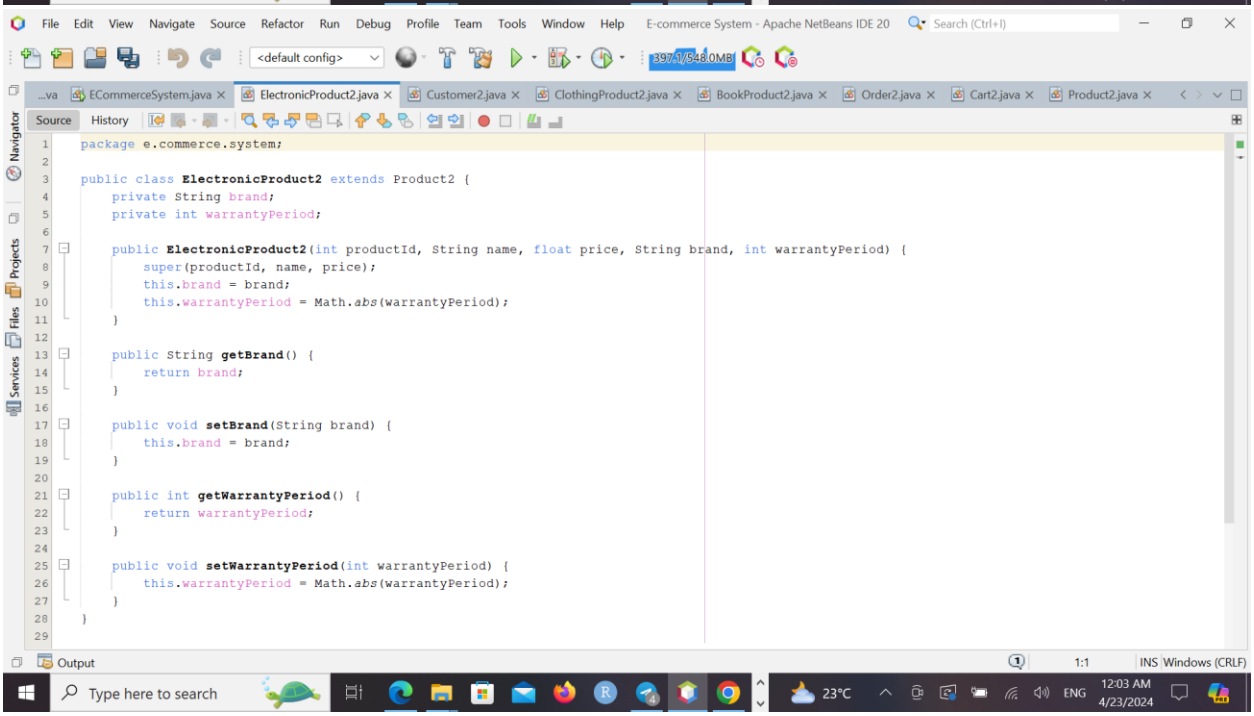
...va ECommerceSystem.java ElectronicProduct2.java Customer2.java ClothingProduct2.java BookProduct2.java Order2.java Cart2.java Product2.java
Source History
Navigator
Projects
Files
Services
16 public int getProductId() {
17 return productId;
18 }
19
20 public void setProductId(int productId) {
21 this.productId = Math.abs(productId);
22 }
23
24 public String getName() {
25 return name;
26 }
27
28 public void setName(String name) {
29 this.name = name;
30 }
31
32 public float getPrice() {
33 return price;
34 }
35
36 public void setPrice(float price) {
37 this.price = Math.abs(price);
38 }
39 }
40
41
Output
40:1
INS Windows (CRLF)
Type here to search
23°C
ENG
12:03 AM
4/23/2024


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
E-commerce System - Apache NetBeans IDE 20
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397 M/548.0MB
...va ECommerceSystem.java ElectronicProduct2.java Customer2.java ClothingProduct2.java BookProduct2.java Order2.java Cart2.java Product2.java
Source History
Navigator
Projects
Files
Services
1 package e.commerce.system;
2
3 public class ElectronicProduct2 extends Product2 {
4 private String brand;
5 private int warrantyPeriod;
6
7 public ElectronicProduct2(int productId, String name, float price, String brand, int warrantyPeriod) {
8 super(productId, name, price);
9 this.brand = brand;
10 this.warrantyPeriod = Math.abs(warrantyPeriod);
11 }
12
13 public String getBrand() {
14 return brand;
15 }
16
17 public void setBrand(String brand) {
18 this.brand = brand;
19 }
20
21 public int getWarrantyPeriod() {
22 return warrantyPeriod;
23 }
24
25 public void setWarrantyPeriod(int warrantyPeriod) {
26 this.warrantyPeriod = Math.abs(warrantyPeriod);
27 }
28 }
29
Output
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INS Windows (CRLF)
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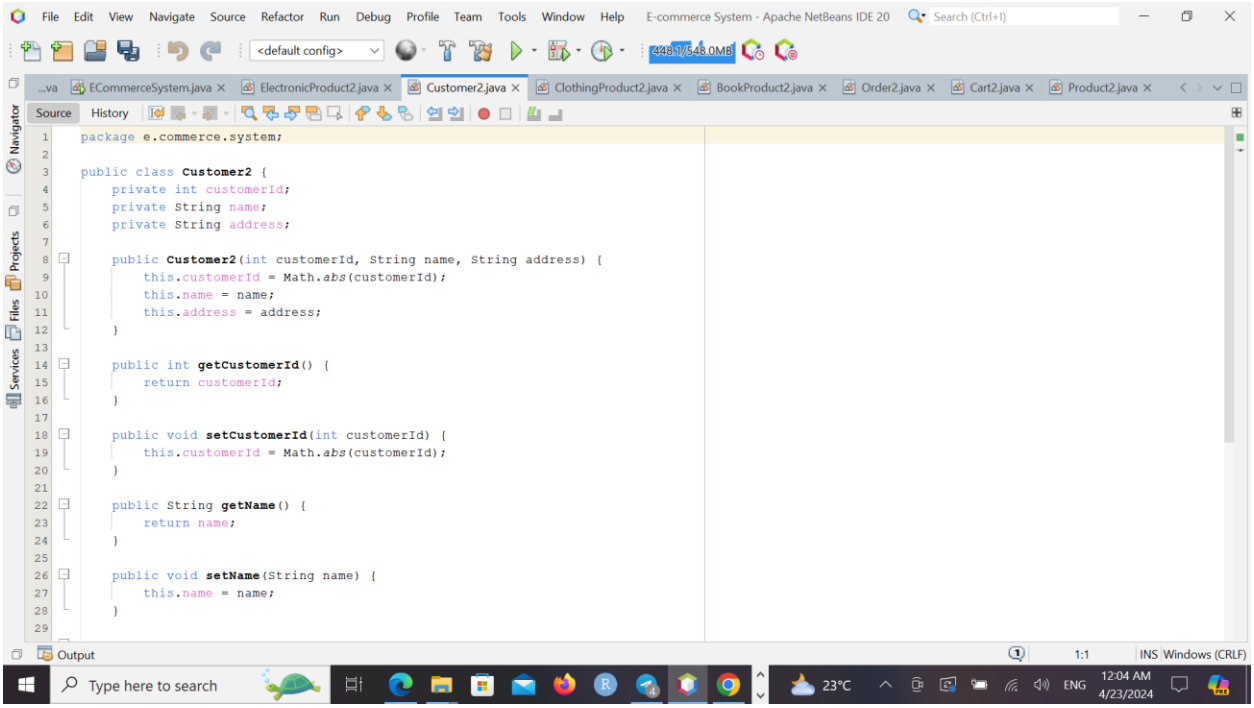
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E-commerce System - Apache NetBeans IDE 20
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448.1/548.0MB
...va ECommerceSystem.java ElectronicProduct2.java Customer2.java ClothingProduct2.java BookProduct2.java Order2.java Cart2.java Product2.java
Source History
Navigator
Projects
Files
Services
1 package e.commerce.system;
3 public class Customer2 {
4 private int customerId;
5 private String name;
6 private String address;
8 public Customer2(int customerId, String name, String address) {
9 this.customerId = Math.abs(customerId);
10 this.name = name;
11 this.address = address;
12 }
14 public int getCustomerId() {
15 return customerId;
16 }
18 public void setCustomerId(int customerId) {
19 this.customerId = Math.abs(customerId);
20 }
22 public String getName() {
23 return name;
24 }
26 public void setName(String name) {
27 this.name = name;
28 }
Output
1:1
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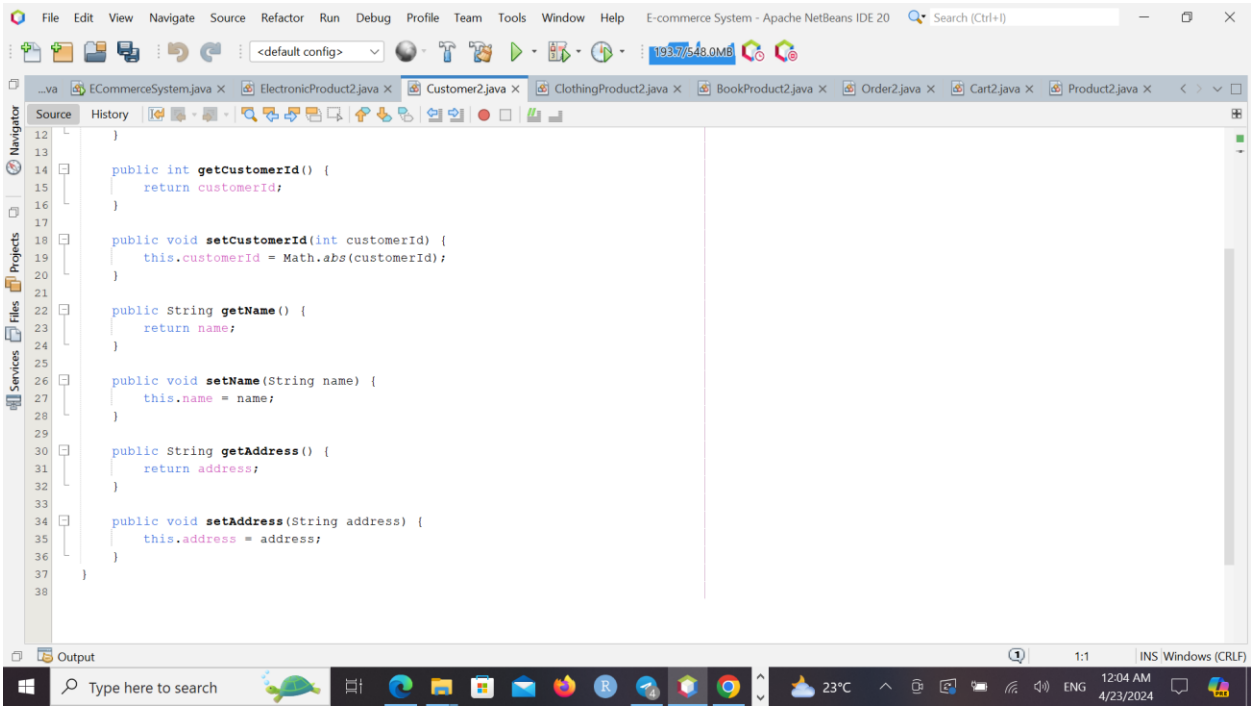
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E-commerce System - Apache NetBeans IDE 20
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193.7/548.0MB
...va ECommerceSystem.java ElectronicProduct2.java Customer2.java ClothingProduct2.java BookProduct2.java Order2.java Cart2.java Product2.java
Source History
Navigator
Projects
Files
Services
12 }
14 public int getCustomerId() {
15 return customerId;
16 }
18 public void setCustomerId(int customerId) {
19 this.customerId = Math.abs(customerId);
20 }
22 public String getName() {
23 return name;
24 }
26 public void setName(String name) {
27 this.name = name;
28 }
30 public String getAddress() {
31 return address;
32 }
34 public void setAddress(String address) {
35 this.address = address;
36 }
37 }
Output
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INS Windows (CRLF)
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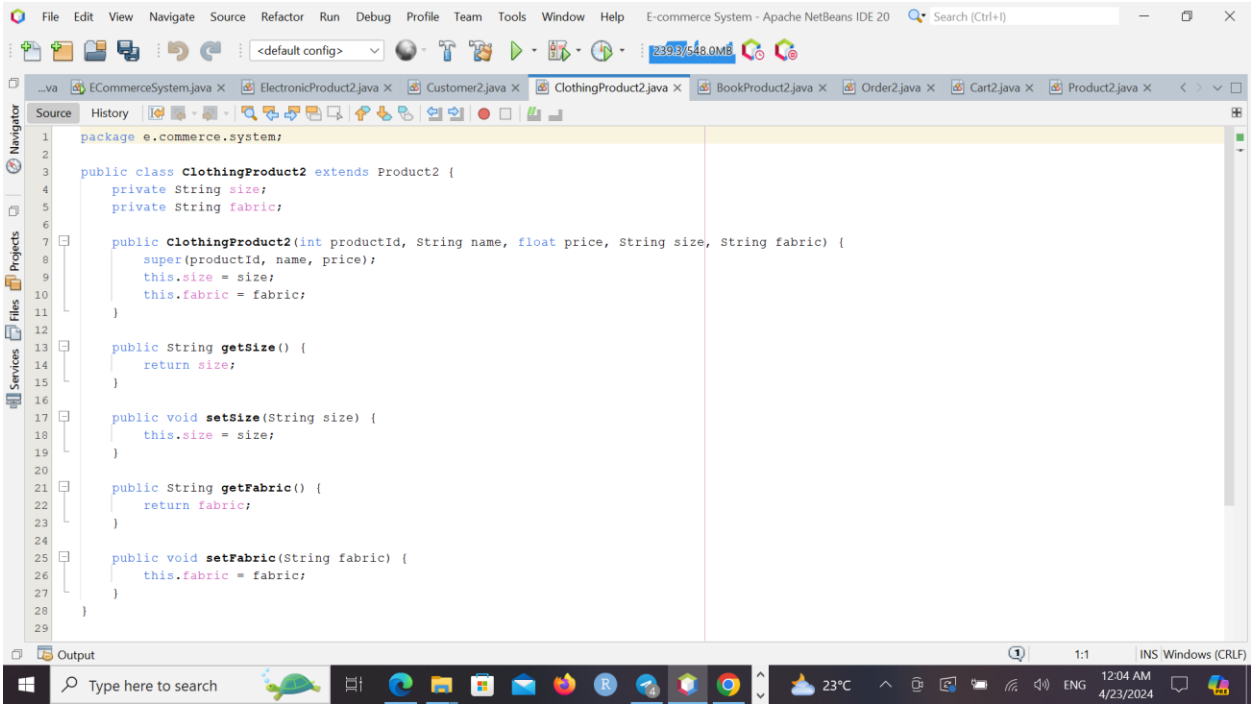
ENG
12:04 AM
4/23/2024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E-commerce System - Apache NetBeans IDE 20
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239.3/548.0MB
...va ECommerceSystem.java ElectronicProduct2.java Customer2.java ClothingProduct2.java BookProduct2.java Order2.java Cart2.java Product2.java
Source History
Navigator
Projects
Files
Services
package e.commerce.system;
public class ClothingProduct2 extends Product2 {
private String size;
private String fabric;
public ClothingProduct2(int productId, String name, float price, String size, String fabric) {
super(productId, name, price);
this.size = size;
this.fabric = 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;
}
}
Output
1:1
INS Windows (CRLF)
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ENG
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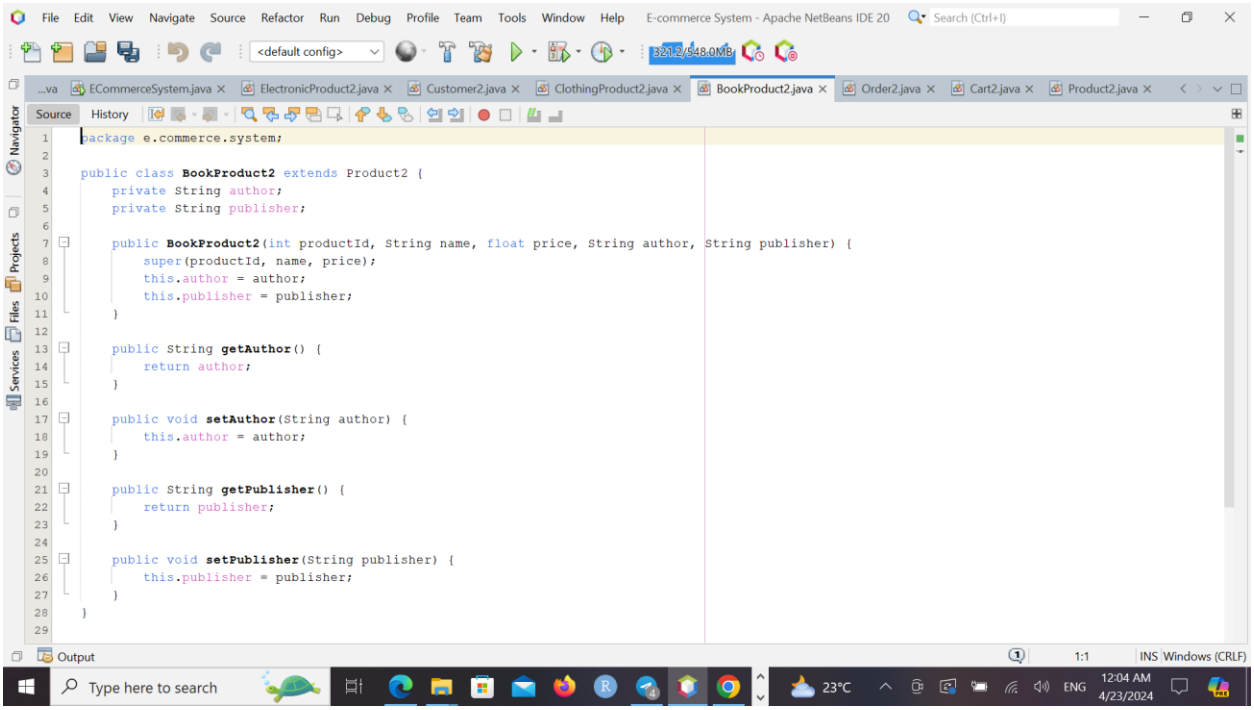
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E-commerce System - Apache NetBeans IDE 20
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...va ECommerceSystem.java ElectronicProduct2.java Customer2.java ClothingProduct2.java BookProduct2.java Order2.java Cart2.java Product2.java
Source History
Navigator
Projects
Files
Services
package e.commerce.system;
public class BookProduct2 extends Product2 {
private String author;
private String publisher;
public BookProduct2(int productId, String name, float price, String author, String publisher) {
super(productId, name, price);
this.author = author;
this.publisher = publisher;
}
public String getAuthor() {
return author;
}
public void setAuthor(String author) {
this.author = author;
}
public String getPublisher() {
return publisher;
}
public void setPublisher(String publisher) {
this.publisher = publisher;
}
}
Output
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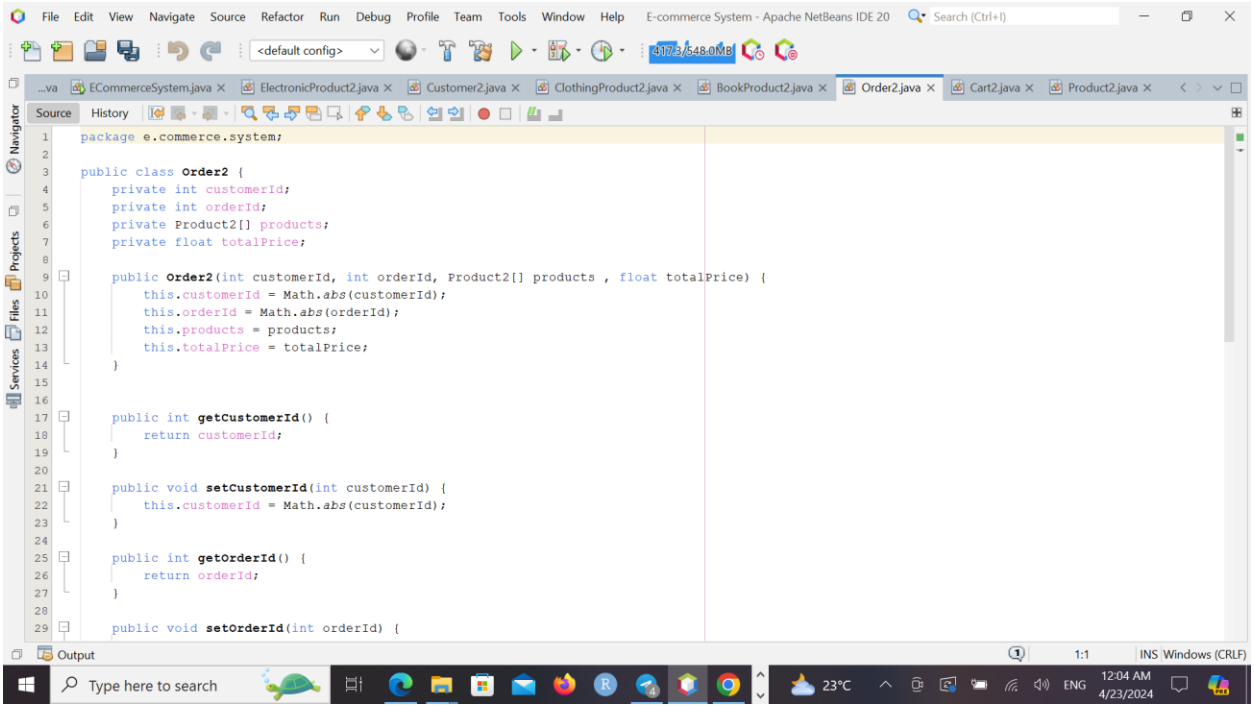
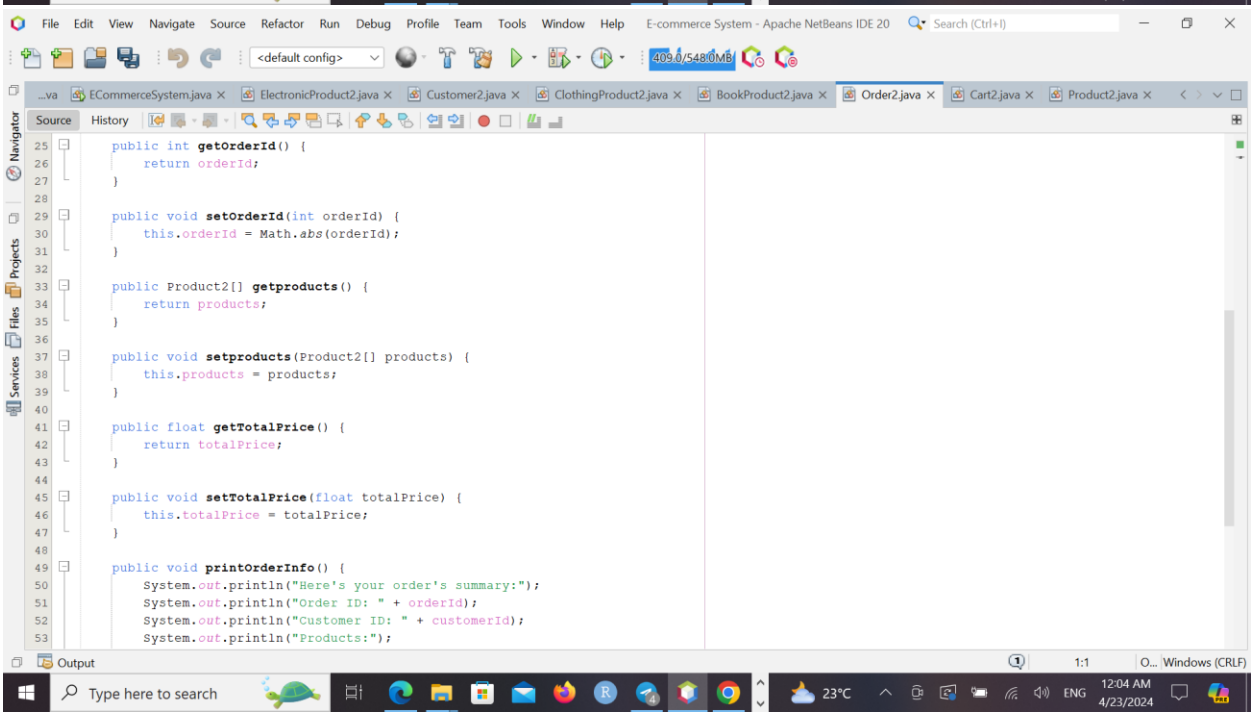
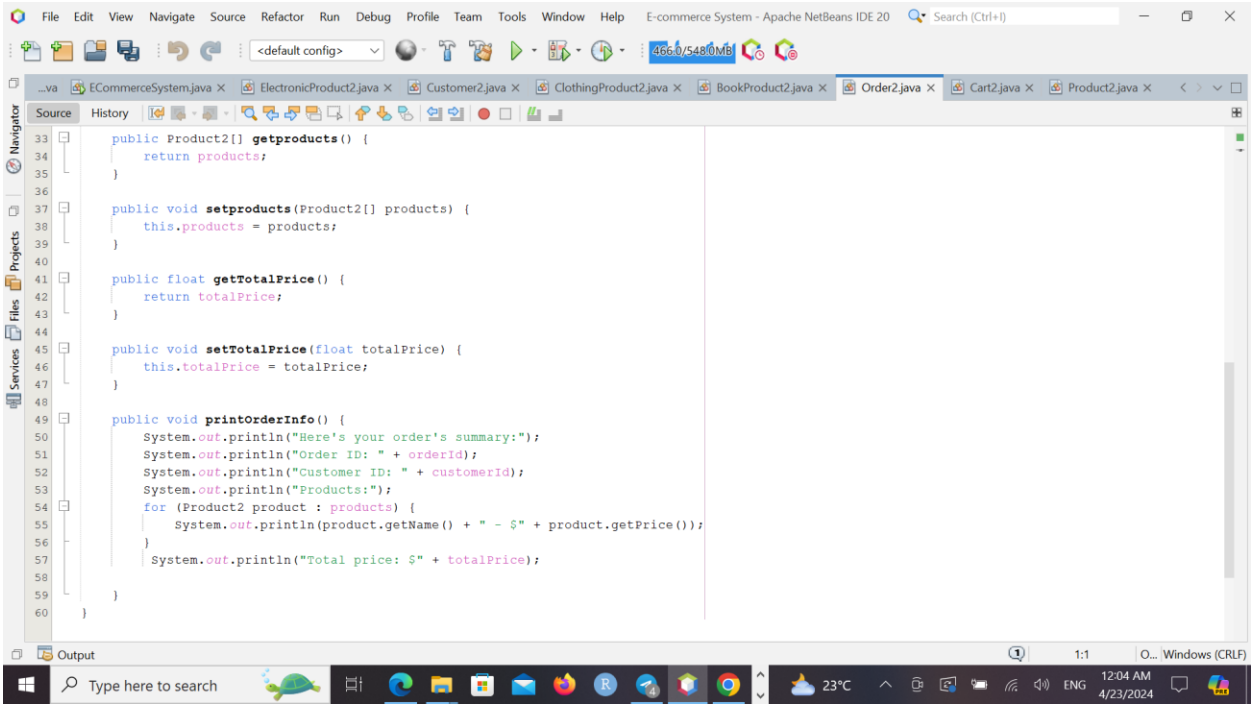


```
package e.commerce.system;

public class Order2 {
    private int customerId;
    private int orderId;
    private Product2[] products;
    private float totalPrice;

    public Order2(int customerId, int orderId, Product2[] products , float totalPrice) {
        this.customerId = Math.abs(customerId);
        this.orderId = Math.abs(orderId);
        this.products = products;
        this.totalPrice = totalPrice;
    }


    public int getCustomerId() {
        return customerId;
    }

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

    public int getOrderId() {
        return orderId;
    }

    public void setOrderId(int orderId) {
```



```
    public int getOrderId() {
        return orderId;
    }

    public void setOrderId(int orderId) {
        this.orderId = Math.abs(orderId);
    }

    public Product2[] getproducts() {
        return products;
    }

    public void setproducts(Product2[] products) {
        this.products = products;
    }

    public float getTotalPrice() {
        return totalPrice;
    }

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

    public void printOrderInfo() {
        System.out.println("Here's your order's summary:");
        System.out.println("Order ID: " + orderId);
        System.out.println("Customer ID: " + customerId);
        System.out.println("Products:");
```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E-commerce System - Apache NetBeans IDE 20
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466.0/548.0MB
...va ECommerceSystem.java ElectronicProduct2.java Customer2.java ClothingProduct2.java BookProduct2.java Order2.java Cart2.java Product2.java
Source History
Navigator Projects Files Services
public Product2[] getproducts() {
return products;
}
public void setproducts(Product2[] products) {
this.products = products;
}
public float getTotalPrice() {
return totalPrice;
}
public void setTotalPrice(float totalPrice) {
this.totalPrice = totalPrice;
}
public void printOrderInfo() {
System.out.println("Here's your order's summary:");
System.out.println("Order ID: " + orderId);
System.out.println("Customer ID: " + customerId);
System.out.println("Products:");
for (Product2 product : products) {
System.out.println(product.getName() + " - $" + product.getPrice());
}
System.out.println("Total price: $" + totalPrice);
}
}
Output
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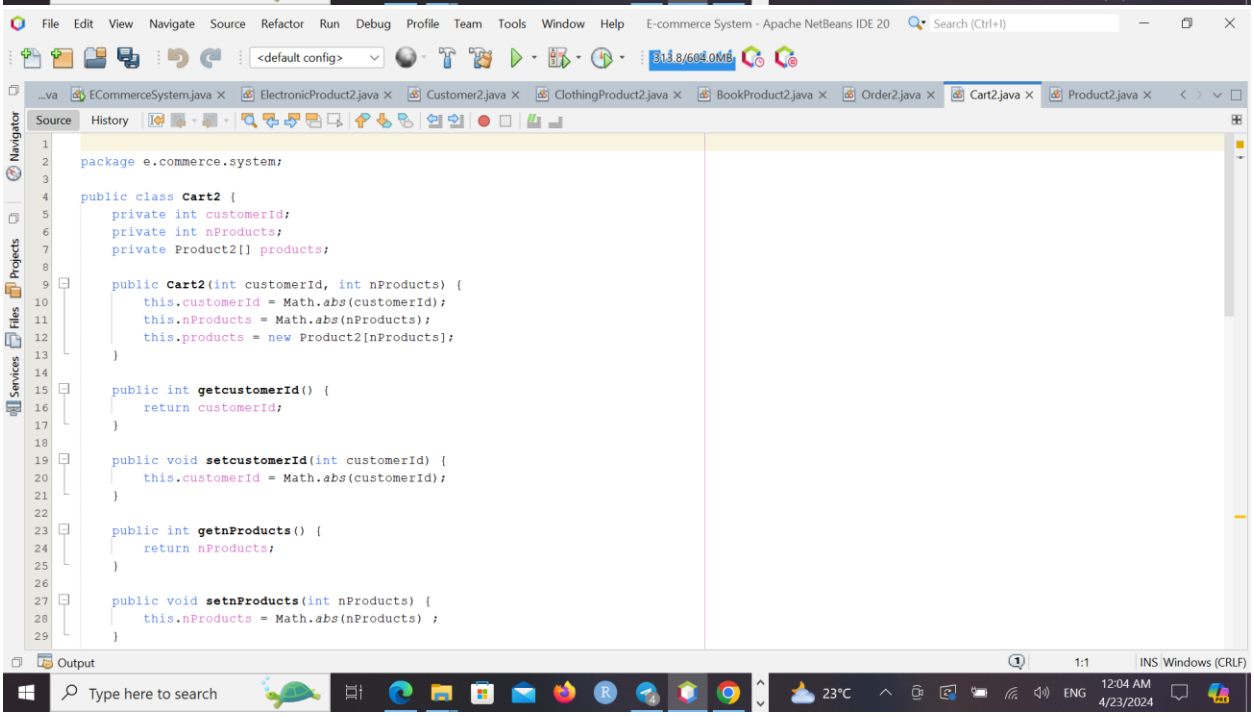
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E-commerce System - Apache NetBeans IDE 20
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313.8/604.0MB
...va ECommerceSystem.java ElectronicProduct2.java Customer2.java ClothingProduct2.java BookProduct2.java Order2.java Cart2.java Product2.java
Source History
Navigator Projects Files Services
package e.commerce.system;
public class Cart2 {
private int customerId;
private int nProducts;
private Product2[] products;
public Cart2(int customerId, int nProducts) {
this.customerId = Math.abs(customerId);
this.nProducts = Math.abs(nProducts);
this.products = new Product2[nProducts];
}
public int getcustomerId() {
return customerId;
}
public void setcustomerId(int customerId) {
this.customerId = Math.abs(customerId);
}
public int getnProducts() {
return nProducts;
}
public void setnProducts(int nProducts) {
this.nProducts = Math.abs(nProducts) ;
}
Output
1:1
INS
Windows (CRLF)
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23°C
ENG
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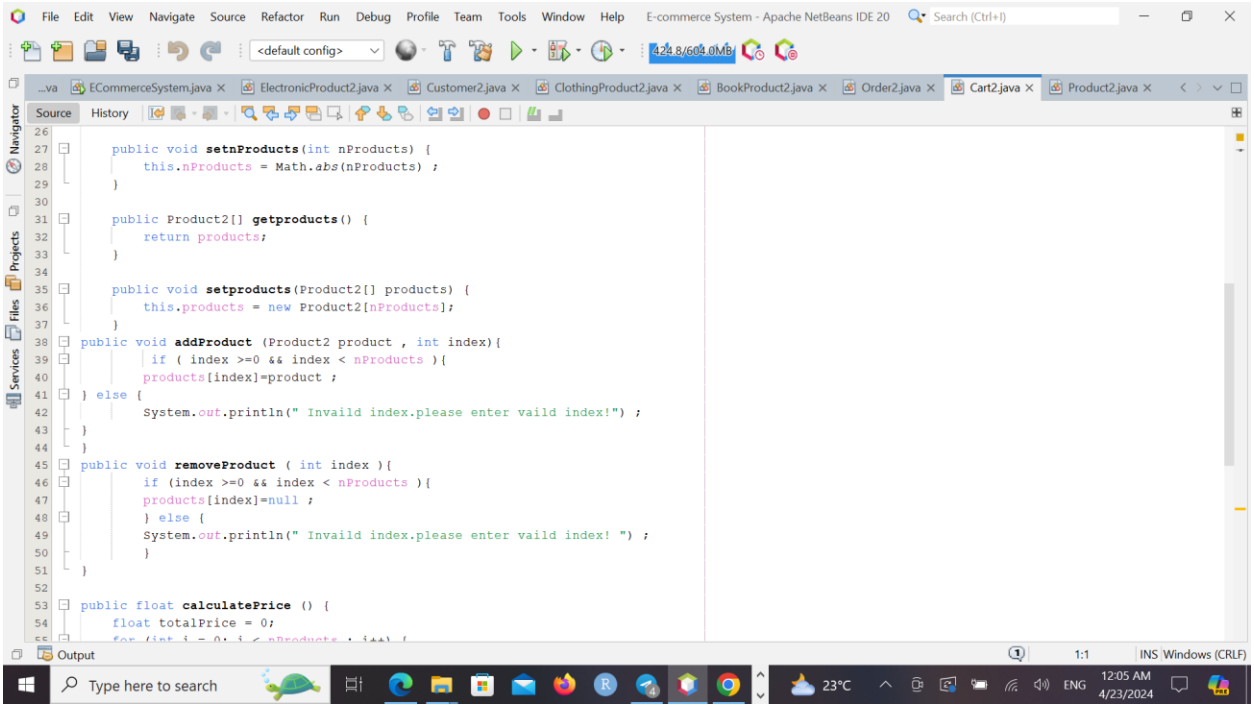
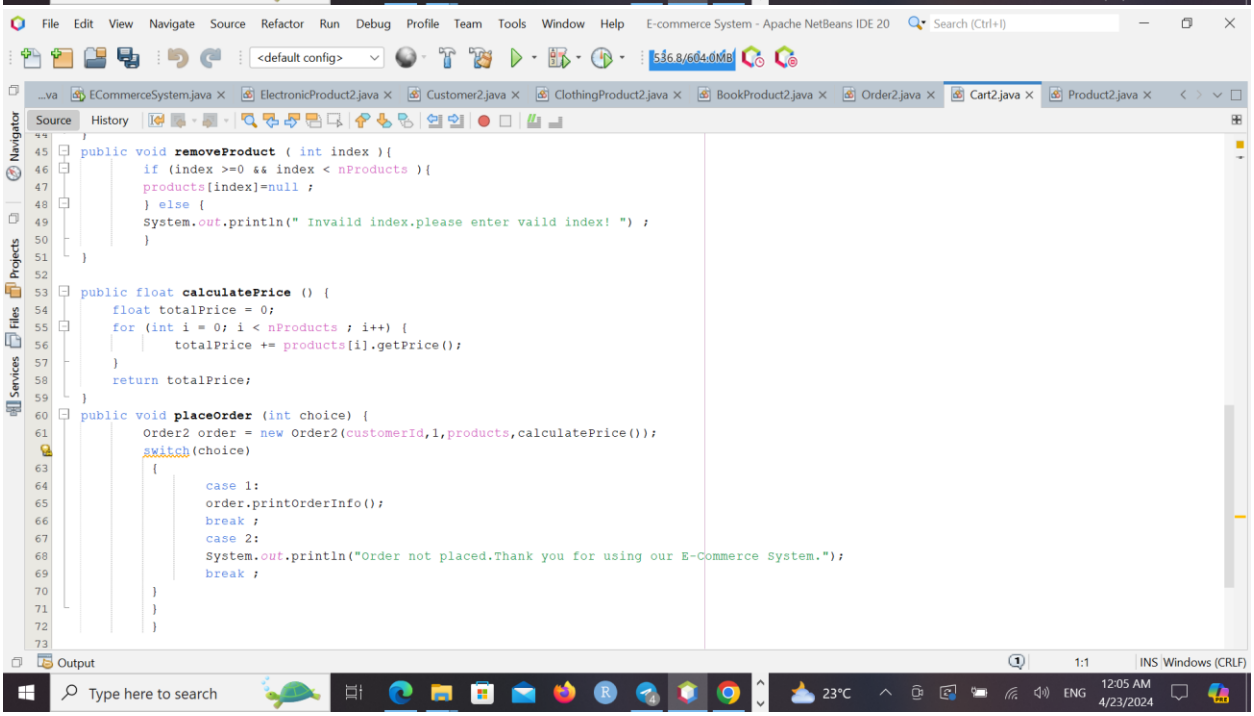
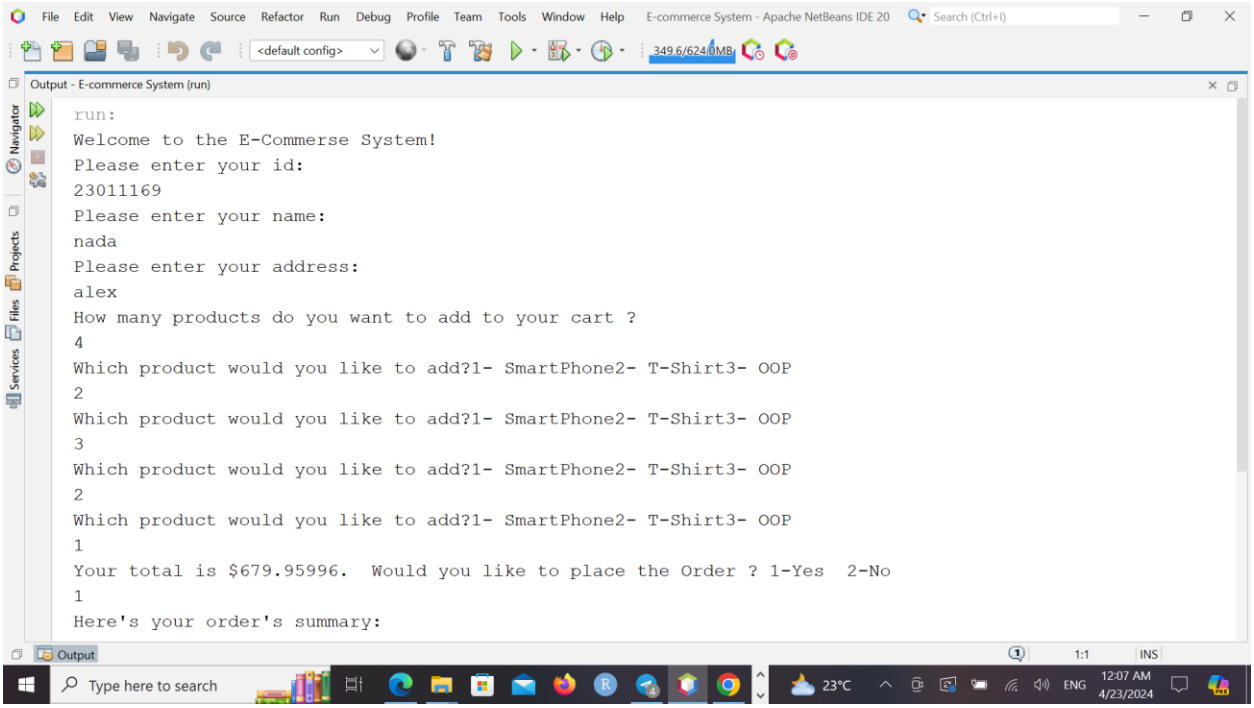
4/23/2024

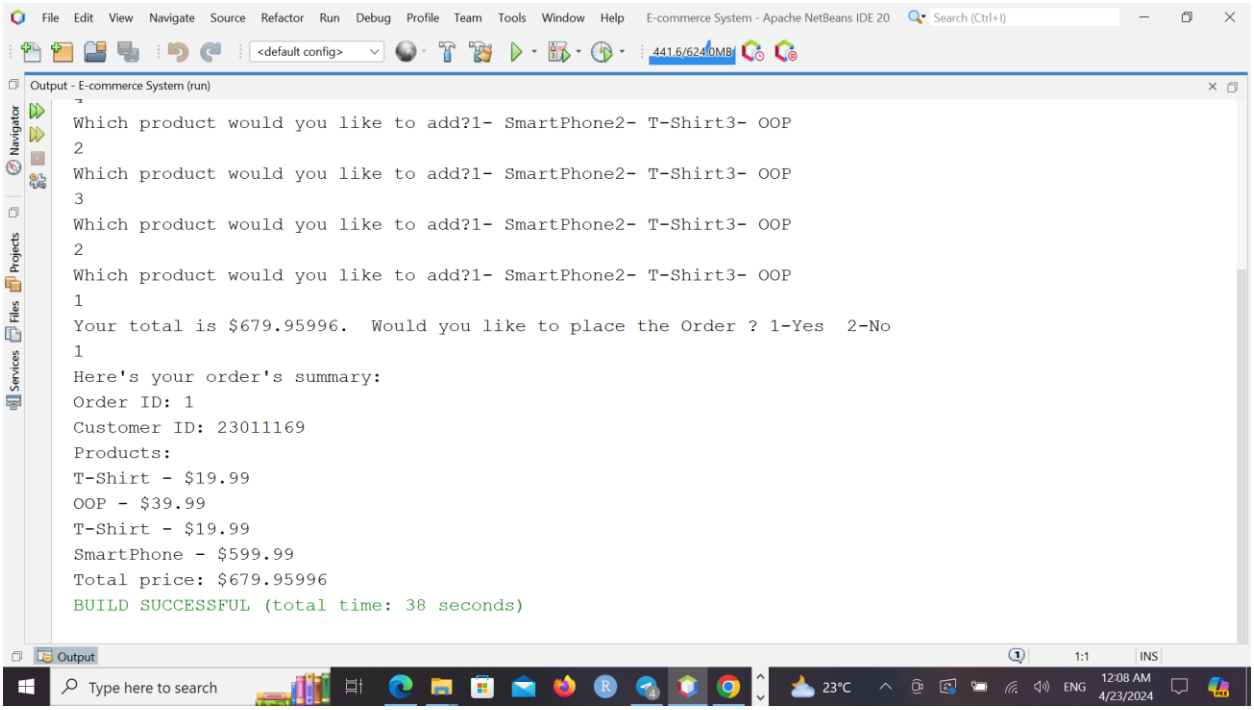


```
    public void setnProducts(int nProducts) {
        this.nProducts = Math.abs(nProducts) ;
    }

    public Product2[] getproducts() {
        return products;
    }

    public void setproducts(Product2[] products) {
        this.products = new Product2[nProducts];
    }
public void addProduct (Product2 product , int index){
        if ( index >=0 && index < nProducts ){
        products[index]=product ;
} else {
        System.out.println(" Invaild index.please enter vaild index!") ;
}
}
public void removeProduct ( int index ){
        if (index >=0 && index < nProducts ){
        products[index]=null ;
        } else {
        System.out.println(" Invaild index.please enter vaild index! ") ;
        }
}

public float calculatePrice () {
    float totalPrice = 0;
```



```
public void removeProduct ( int index ){
        if (index >=0 && index < nProducts ){
        products[index]=null ;
        } else {
        System.out.println(" Invaild index.please enter vaild index! ") ;
        }
}

public float calculatePrice () {
    float totalPrice = 0;
    for (int i = 0; i < nProducts ; i++) {
        totalPrice += products[i].getPrice();
    }
    return totalPrice;
}
public void placeOrder (int choice) {
        Order2 order = new Order2(customerId,1,products,calculatePrice());
        switch(choice)
        {
            case 1:
            order.printOrderInfo();
            break ;
            case 2:
            System.out.println("Order not placed.Thank you for using our E-Commerce System.");
            break ;
        }
        }
        }
```


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
E-commerce System - Apache NetBeans IDE 20
Search (Ctrl+I)
<default config>
349.6/624.0MB
Output - E-commerce System (run)
run:
Welcome to the E-Commerse System!
Please enter your id:
23011169
Please enter your name:
nada
Please enter your address:
alex
How many products do you want to add to your cart ?
4
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
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
1
Your total is $679.95996. Would you like to place the Order ? 1-Yes 2-No
1
Here's your order's summary:
Output
1:1
INS
Type here to search
23°C
ENG
12:07 AM
4/23/2024


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
E-commerce System - Apache NetBeans IDE 20
Search (Ctrl+I)
<default config>
441.6/624.0MB
Output - E-commerce System (run)
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
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
1
Your total is $679.95996. Would you like to place the Order ? 1-Yes 2-No
1
Here's your order's summary:
Order ID: 1
Customer ID: 23011169
Products:
T-Shirt - $19.99
OOP - $39.99
T-Shirt - $19.99
SmartPhone - $599.99
Total price: $679.95996
BUILD SUCCESSFUL (total time: 38 seconds)
Output
1:1
INS
Type here to search
23°C
ENG
12:08 AM
4/23/2024