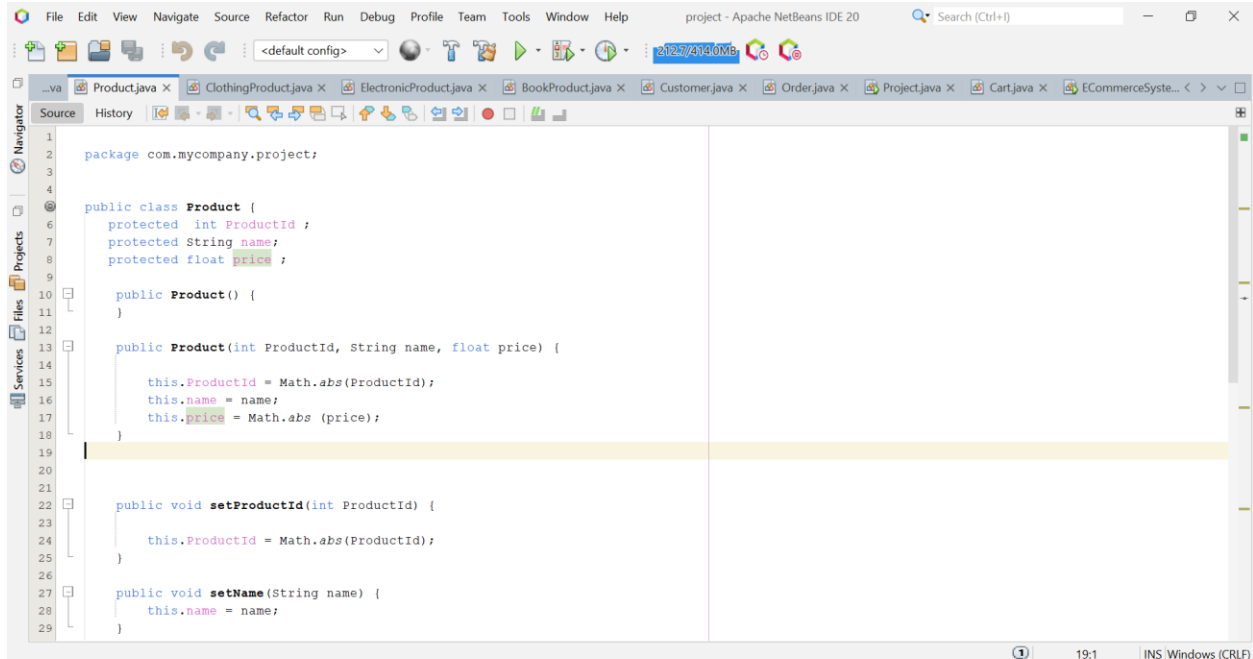
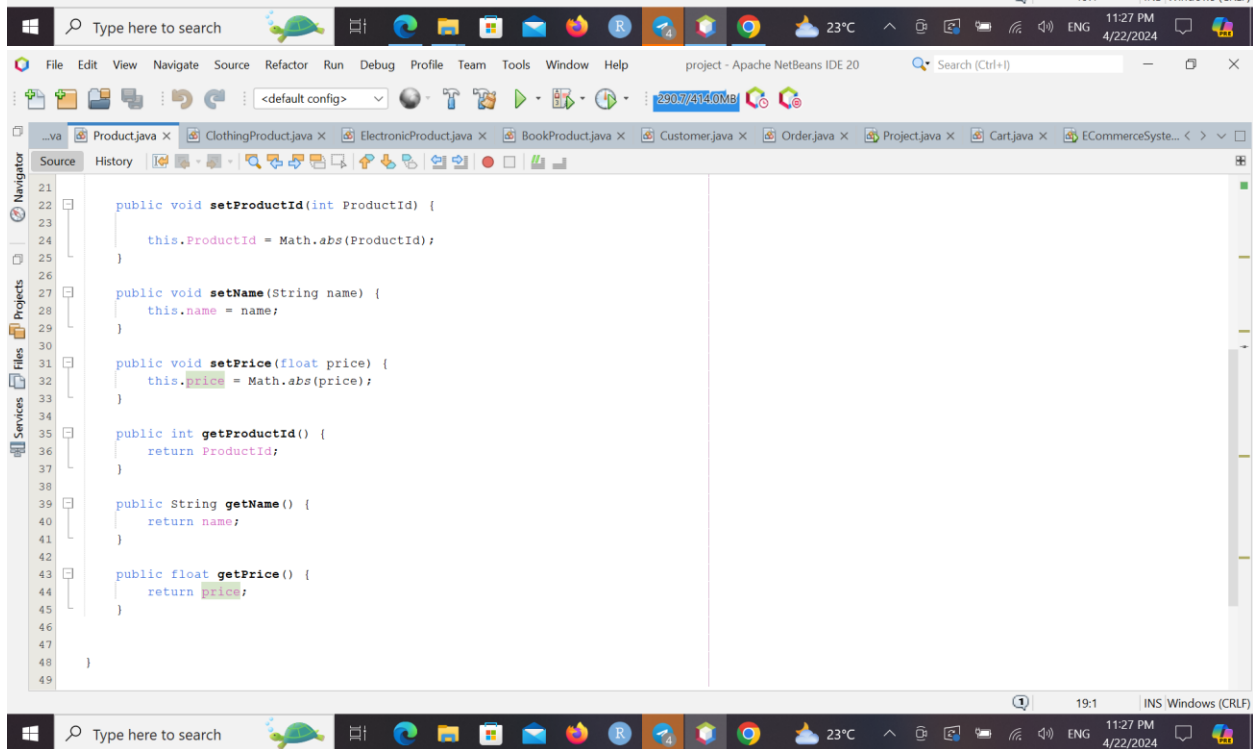


```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project - Apache NetBeans IDE 20 Search (Ctrl+I)
<default config> 3280/4140MB
Source History
package com.mycompany.project;
import java.util.Scanner;
public class Project {
    public static void main(String[] args) {
        Scanner input=new Scanner(System.in);
        ClothingProduct s1=new ClothingProduct("Medium","Cotton",2,"T-shirt", (float) 19.99);
        BookProduct s2=new BookProduct("O'Reilly", "X Publisher", 3, "OOP", (float)39.99);
        ElectronicProduct s3=new ElectronicProduct("Samsung", 1,1, "Smartphone", (float)599.99);
        System.out.println("Welcome to the E-commerce System");
        System.out.println("Please Enter your id");
        int Id=input.nextInt();
        System.out.println("Please Enter your name");
        String name=input.next();
        System.out.println("Please Enter your address");
        String address=input.next();
        Customer x=new Customer (Id,name,address);
        System.out.println("How many Products you want to your cart?");
        int nProducts =Math.abs(input.nextInt());
        Cart s4=new Cart ( Id, nProducts);
        for(int i=0;i<nProducts;i++){
            System.out.println("Which Products Would you like to add? 1-Smartphone 2-T-shirt 3-OOP");
            int choice=input.nextInt();
            switch (choice){
                case 1:
                    s4.addProduct(s3,i);
                    break;
                case 2:
                    s4.addProduct(s1,i);
                    break;
                case 3:
                    s4.addProduct(s2,i);
                    break;
            }
        }
        System.out.println("your total is $ "+s4.calculateprice()+"Would you want to place your order? 1- yes 2- No");
        int num = input.nextInt();
        s4.placeOrder(num);
    }
}
```

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project - Apache NetBeans IDE 20 Search (Ctrl+I)
<default config> 3136/4140MB
Source History
int nProducts =Math.abs(input.nextInt());
Cart s4=new Cart ( Id, nProducts);
for(int i=0;i<nProducts;i++){
    System.out.println("Which Products Would you like to add? 1-Smartphone 2-T-shirt 3-OOP");
    int choice=input.nextInt();
    switch (choice){
        case 1:
            s4.addProduct(s3,i);
            break;
        case 2:
            s4.addProduct(s1,i);
            break;
        case 3:
            s4.addProduct(s2,i);
            break;
    }
}
System.out.println("your total is $ "+s4.calculateprice()+"Would you want to place your order? 1- yes 2- No");
int num = input.nextInt();
s4.placeOrder(num);
}
```



```
1 package com.mycompany.project;
2
3
4
5
6 public class Product {
7     protected int ProductId;
8     protected String name;
9     protected float price;
10
11     public Product() {
12     }
13
14     public Product(int ProductId, String name, float price) {
15         this.ProductId = Math.abs(ProductId);
16         this.name = name;
17         this.price = Math.abs(price);
18     }
19
20
21
22     public void setProductId(int ProductId) {
23         this.ProductId = Math.abs(ProductId);
24     }
25
26
27     public void setName(String name) {
28         this.name = name;
29     }
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
```



```
21
22     public void setProductId(int ProductId) {
23         this.ProductId = Math.abs(ProductId);
24     }
25
26
27     public void setName(String name) {
28         this.name = name;
29     }
30
31     public void setPrice(float price) {
32         this.price = Math.abs(price);
33     }
34
35     public int getProductId() {
36         return ProductId;
37     }
38
39     public String getName() {
40         return name;
41     }
42
43     public float getPrice() {
44         return price;
45     }
46
47
48
49
```

project - Apache NetBeans IDE 20

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+I)

<default config>

Product.java X ClothingProduct.java X ElectronicProduct.java X BookProduct.java X Customer.java X Order.java X Project.java X Cart.java X ECommerceSystem.java X

Source History

```
1 package com.mycompany.project;
2
3
4
5 public class ClothingProduct extends Product{
6     private String size ;
7     private String fabric ;
8
9     public ClothingProduct() {
10    }
11
12    public ClothingProduct(String size, String fabric, int ProductId, String name, float price) {
13        super(ProductId, name, price);
14        this.size = size;
15        this.fabric = fabric;
16    }
17
18    public void setFabric(String fabric) {
19        this.fabric = fabric;
20    }
21
22    public void setSize(String size) {
23        this.size = size;
24    }
25
26    public String getFabric() {
27        return fabric;
28    }
29
30 }
```

1:1 INS Windows (CRLF)

Type here to search

23°C 11:27 PM 4/22/2024

project - Apache NetBeans IDE 20

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+I)

<default config>

Product.java X ClothingProduct.java X ElectronicProduct.java X BookProduct.java X Customer.java X Order.java X Project.java X Cart.java X ECommerceSystem.java X

Source History

```
9 public ClothingProduct() {
10 }
11
12 public ClothingProduct(String size, String fabric, int ProductId, String name, float price) {
13     super(ProductId, name, price);
14     this.size = size;
15     this.fabric = fabric;
16 }
17
18 public void setFabric(String fabric) {
19     this.fabric = fabric;
20 }
21
22 public void setSize(String size) {
23     this.size = size;
24 }
25
26 public String getFabric() {
27     return fabric;
28 }
29
30 public String getSize() {
31     return size;
32 }
33
34
35 }
36 }
```

1:1 INS Windows (CRLF)

Type here to search

23°C 11:27 PM 4/22/2024

project - Apache NetBeans IDE 20

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+I)

Product.java ClothingProduct.java ElectronicProduct.java BookProduct.java Customer.java Order.java Project.java Cart.java ECommerceSystem.java

Source History

```
1 package com.mycompany.project;
2
3
4
5 public class ElectronicProduct extends Product{
6     private String brand ;
7     private int WarrantyPeriod ;
8
9     public ElectronicProduct() {
10    }
11
12    public ElectronicProduct(String brand, int WarrantyPeriod, int ProductId, String name, float price) {
13        super(ProductId, name, price);
14        this.brand = brand;
15        this.WarrantyPeriod = Math.abs(WarrantyPeriod);
16    }
17
18    public void setWarrantyPeriod(int WarrantyPeriod) {
19        this.WarrantyPeriod = Math.abs(WarrantyPeriod);
20    }
21
22    public void setBrand(String brand) {
23        this.brand = brand;
24    }
25
26    public int getWarrantyPeriod() {
27        return WarrantyPeriod;
28    }
29
```

1:1 INS Windows (CRLF)

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project - Apache NetBeans IDE 20

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+I)

Product.java ClothingProduct.java ElectronicProduct.java BookProduct.java Customer.java Order.java Project.java Cart.java ECommerceSystem.java

Source History

```
8
9     public ElectronicProduct() {
10    }
11
12    public ElectronicProduct(String brand, int WarrantyPeriod, int ProductId, String name, float price) {
13        super(ProductId, name, price);
14        this.brand = brand;
15        this.WarrantyPeriod = Math.abs(WarrantyPeriod);
16    }
17
18    public void setWarrantyPeriod(int WarrantyPeriod) {
19        this.WarrantyPeriod = Math.abs(WarrantyPeriod);
20    }
21
22    public void setBrand(String brand) {
23        this.brand = brand;
24    }
25
26    public int getWarrantyPeriod() {
27        return WarrantyPeriod;
28    }
29
30    public String getBrand() {
31        return brand;
32    }
33
34
35
```

1:1 INS Windows (CRLF)

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23°C 11:27 PM 4/22/2024

project - Apache NetBeans IDE 20

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+I)

228.0/214.0MB

Source History

```
1 package com.mycompany.project;
2
3
4
5 public class BookProduct extends Product{
6     private String author;
7     private String publisher;
8
9     public BookProduct() {
10    }
11
12    public BookProduct(String author, String publisher, int ProductId, String name, float price) {
13        super(ProductId, name, price);
14        this.author = author;
15        this.publisher = publisher;
16    }
17
18    public void setAuthor(String author) {
19        this.author = author;
20    }
21
22    public void setPublisher(String publisher) {
23        this.publisher = publisher;
24    }
25
26    public String getAuthor() {
27        return author;
28    }
29
```

1:1 INS Windows (CRLF)

Type here to search

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project - Apache NetBeans IDE 20

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+I)

228.0/214.0MB

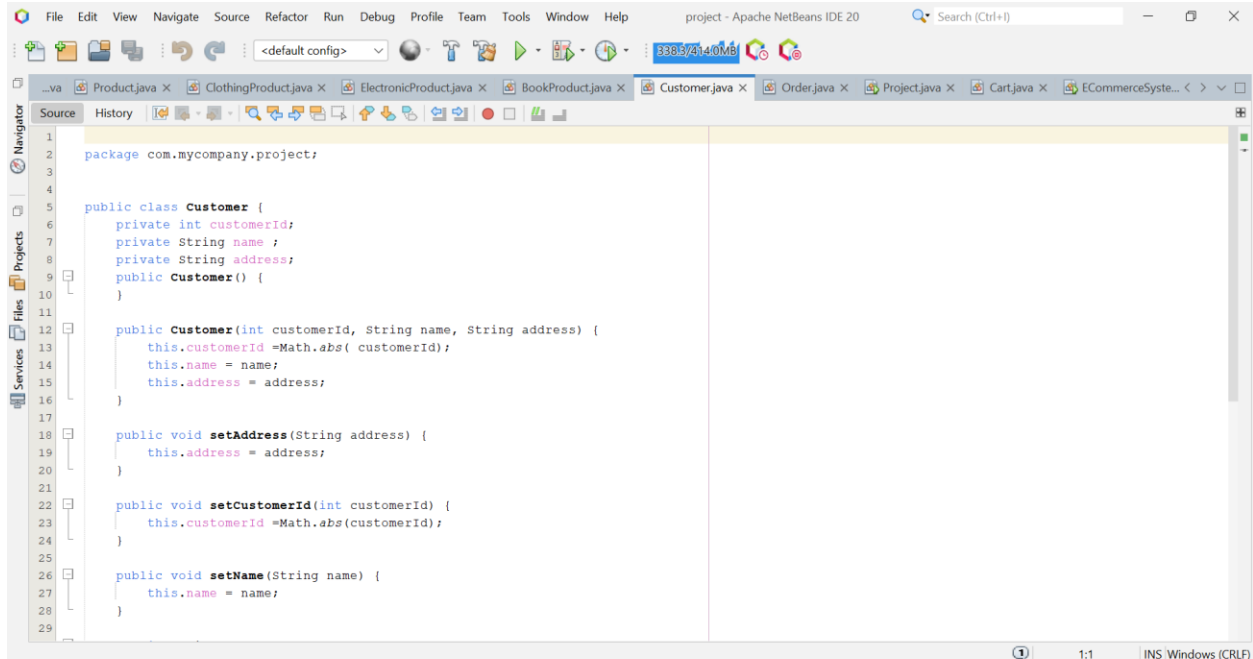
Source History

```
10    }
11
12    public BookProduct(String author, String publisher, int ProductId, String name, float price) {
13        super(ProductId, name, price);
14        this.author = author;
15        this.publisher = publisher;
16    }
17
18    public void setAuthor(String author) {
19        this.author = author;
20    }
21
22    public void setPublisher(String publisher) {
23        this.publisher = publisher;
24    }
25
26    public String getAuthor() {
27        return author;
28    }
29
30    public String getPublisher() {
31        return publisher;
32    }
33
34    }
35
```

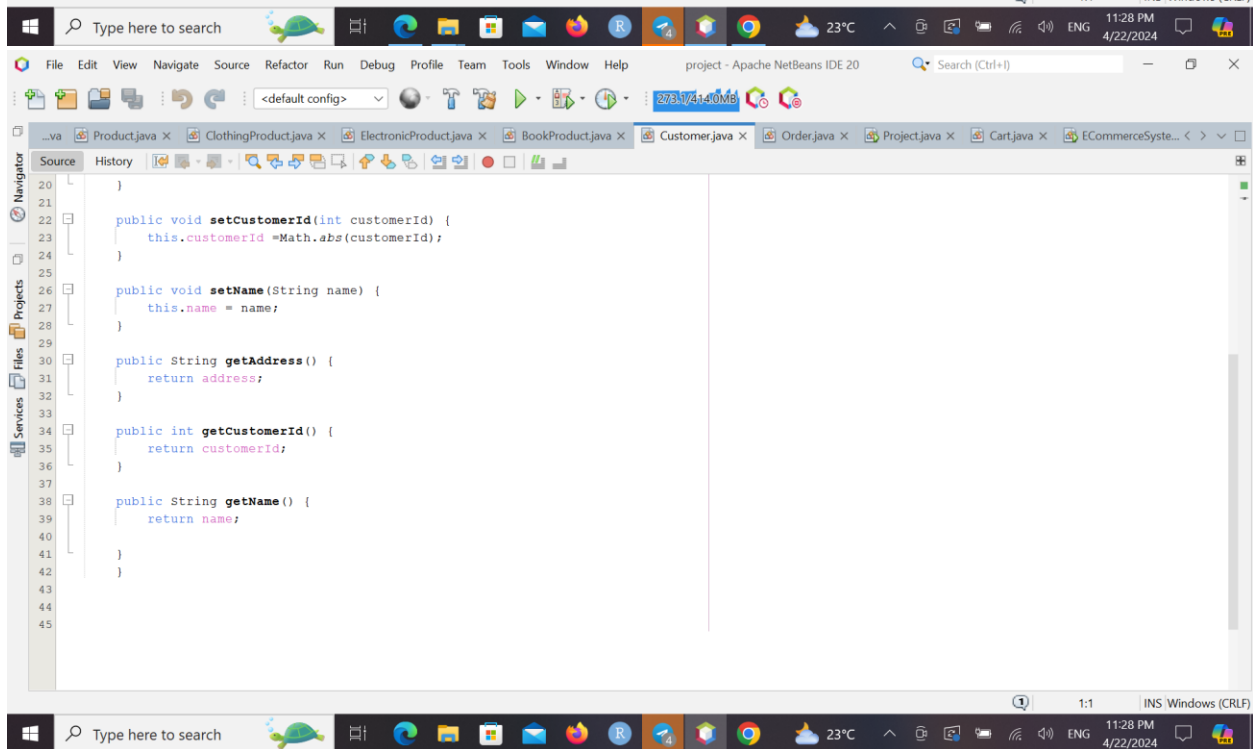
1:1 INS Windows (CRLF)

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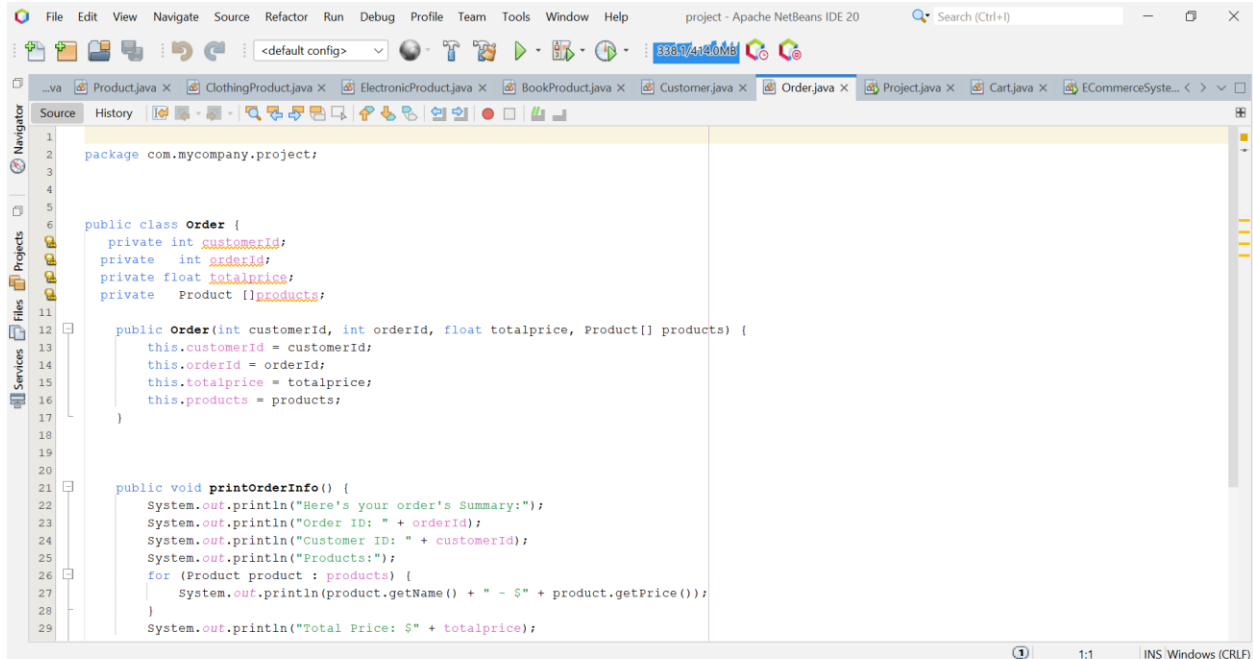
23°C 11:28 PM 4/22/2024



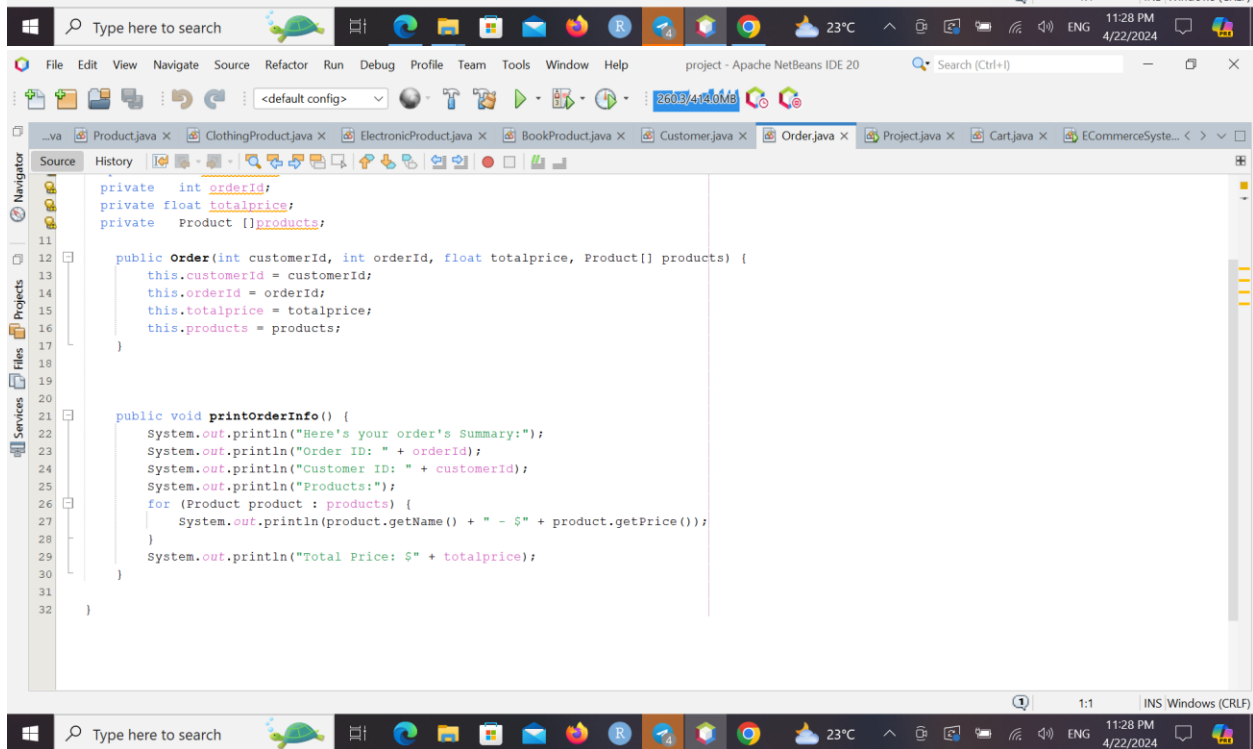
```
1 package com.mycompany.project;
2
3
4
5 public class Customer {
6     private int customerId;
7     private String name;
8     private String address;
9     public Customer() {
10    }
11
12    public Customer(int customerId, String name, String address) {
13        this.customerId = Math.abs(customerId);
14        this.name = name;
15        this.address = address;
16    }
17
18    public void setAddress(String address) {
19        this.address = address;
20    }
21
22    public void setCustomerId(int customerId) {
23        this.customerId = Math.abs(customerId);
24    }
25
26    public void setName(String name) {
27        this.name = name;
28    }
29
30 }
```



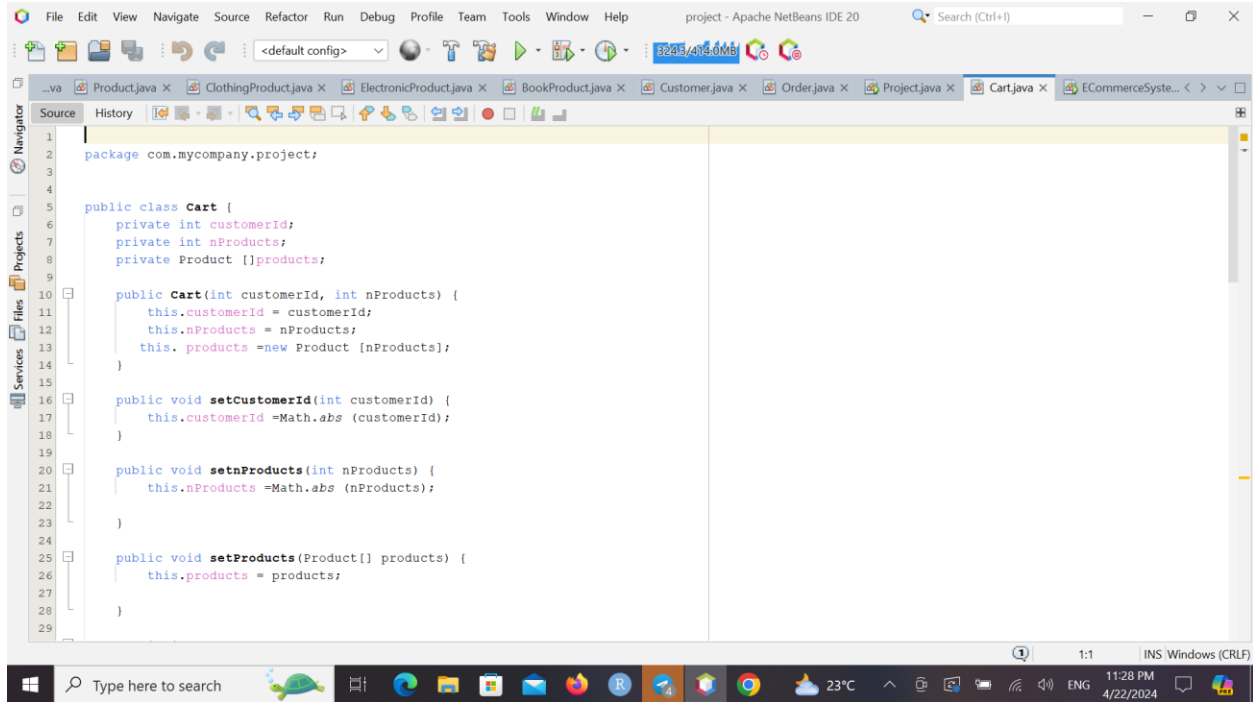
```
20    }
21
22    public void setCustomerId(int customerId) {
23        this.customerId = Math.abs(customerId);
24    }
25
26    public void setName(String name) {
27        this.name = name;
28    }
29
30    public String getAddress() {
31        return address;
32    }
33
34    public int getCustomerId() {
35        return customerId;
36    }
37
38    public String getName() {
39        return name;
40    }
41
42    }
43
44
45 }
```



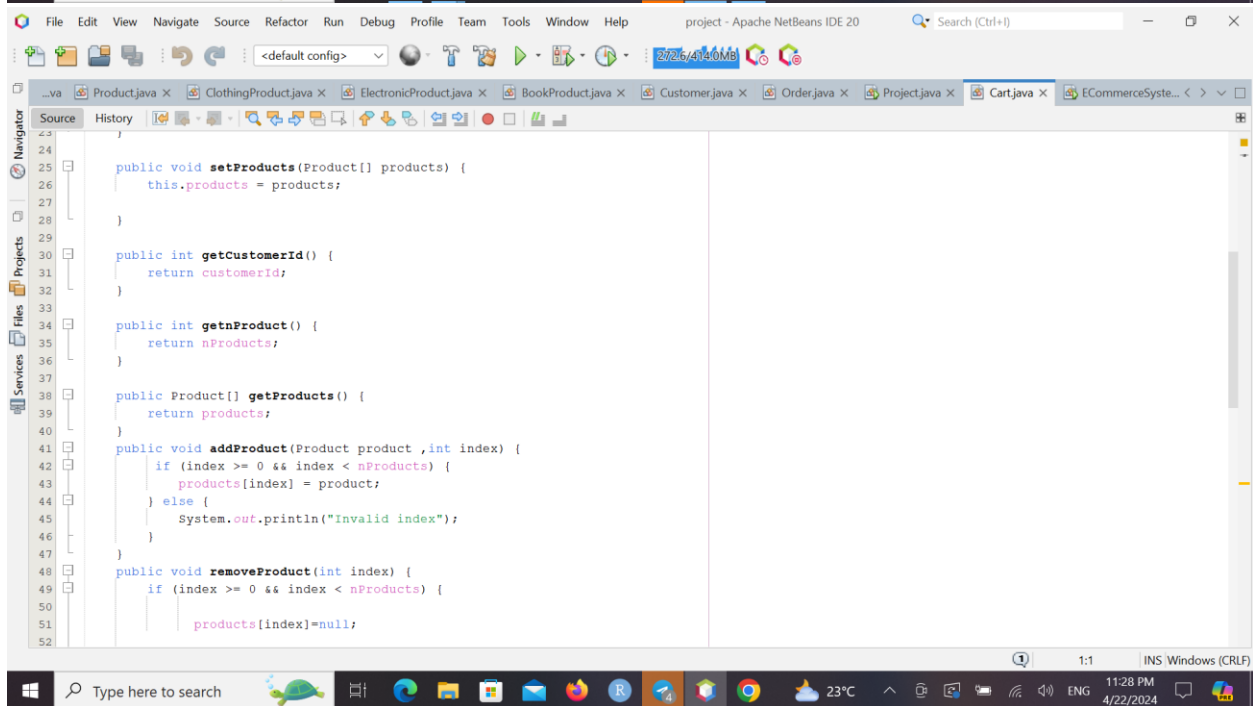
```
1 package com.mycompany.project;
2
3
4
5
6 public class Order {
7     private int customerId;
8     private int orderId;
9     private float totalPrice;
10    private Product []products;
11
12    public Order(int customerId, int orderId, float totalprice, Product[] products) {
13        this.customerId = customerId;
14        this.orderId = orderId;
15        this.totalprice = totalprice;
16        this.products = products;
17    }
18
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 (Product product : products) {
27            System.out.println(product.getName() + " - $" + product.getPrice());
28        }
29        System.out.println("Total Price: $" + totalPrice);
30    }
31
32 }
```



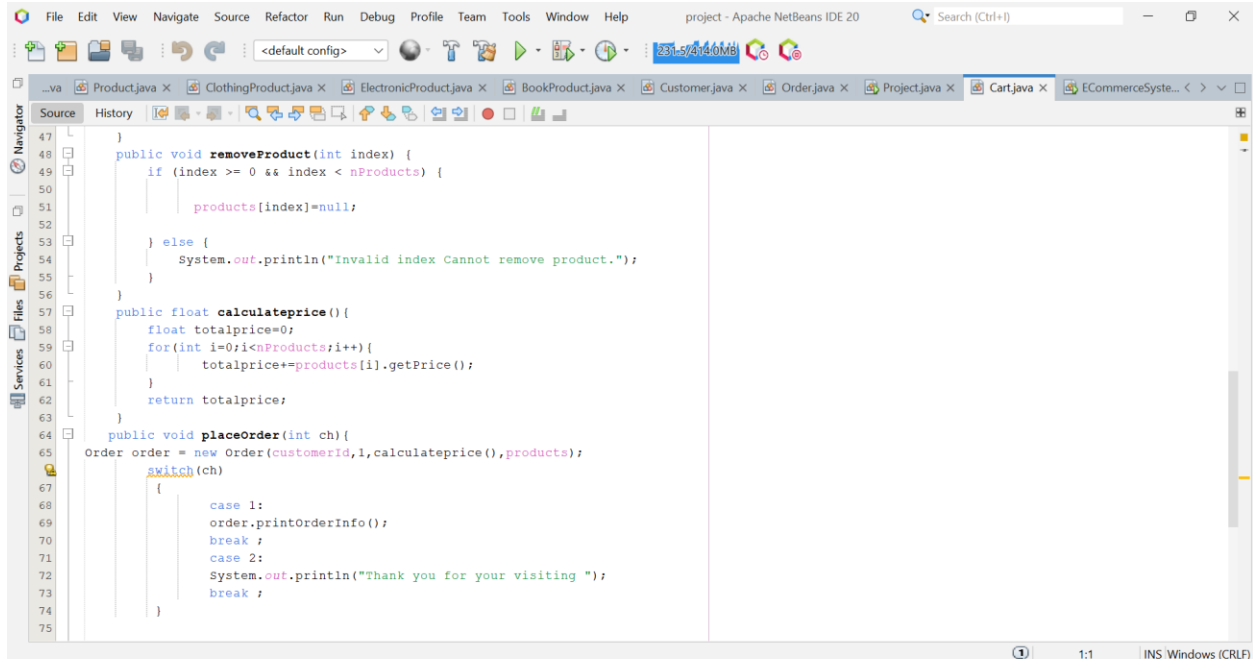
```
1 package com.mycompany.project;
2
3
4
5
6 public class Order {
7     private int customerId;
8     private int orderId;
9     private float totalPrice;
10    private Product []products;
11
12    public Order(int customerId, int orderId, float totalprice, Product[] products) {
13        this.customerId = customerId;
14        this.orderId = orderId;
15        this.totalprice = totalprice;
16        this.products = products;
17    }
18
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 (Product product : products) {
27            System.out.println(product.getName() + " - $" + product.getPrice());
28        }
29        System.out.println("Total Price: $" + totalPrice);
30    }
31
32 }
```



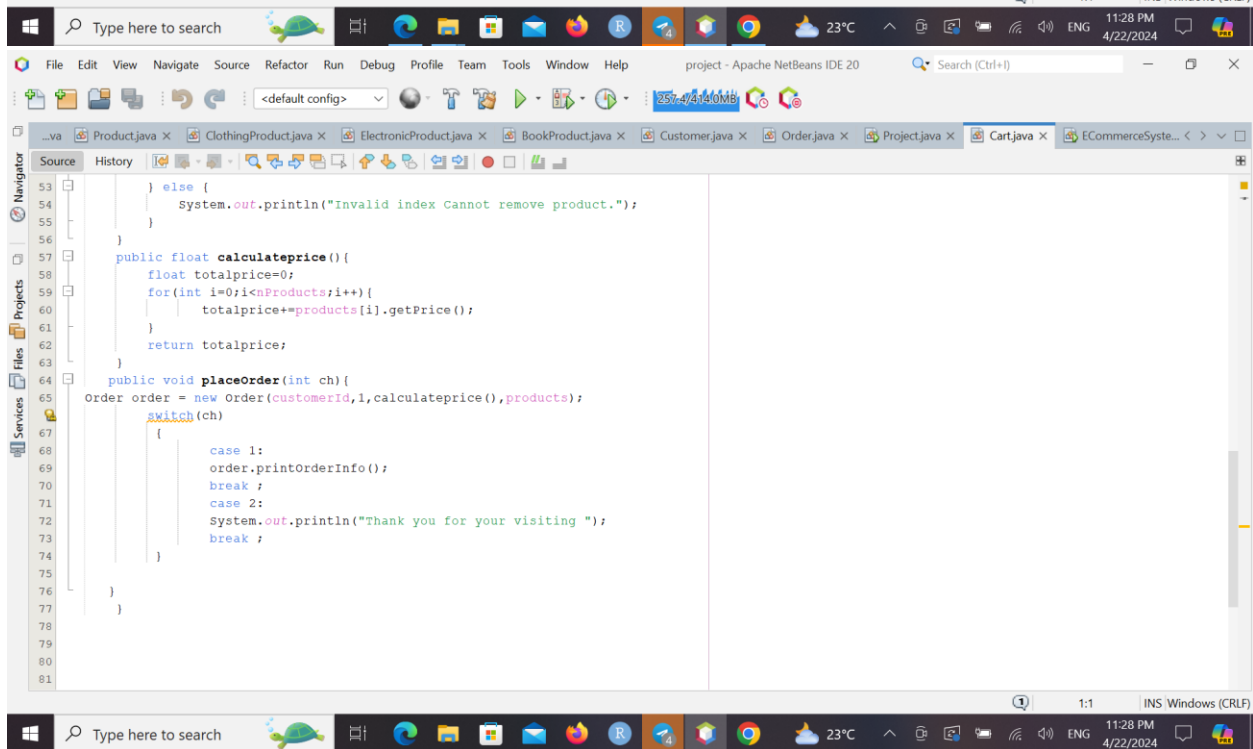
```
1 package com.mycompany.project;
2
3
4
5 public class Cart {
6     private int customerId;
7     private int nProducts;
8     private Product []products;
9
10
11     public Cart(int customerId, int nProducts) {
12         this.customerId = customerId;
13         this.nProducts = nProducts;
14         this.products = new Product [nProducts];
15     }
16
17     public void setCustomerId(int customerId) {
18         this.customerId =Math.abs (customerId);
19     }
20
21     public void setnProducts(int nProducts) {
22         this.nProducts =Math.abs (nProducts);
23     }
24
25     public void setProducts(Product[] products) {
26         this.products = products;
27     }
28
29 }
```



```
24
25     public void setProducts(Product[] products) {
26         this.products = products;
27     }
28
29
30     public int getCustomerId() {
31         return customerId;
32     }
33
34     public int getnProduct() {
35         return nProducts;
36     }
37
38     public Product[] getProducts() {
39         return products;
40     }
41     public void addProduct(Product product ,int index) {
42         if (index >= 0 && index < nProducts) {
43             products[index] = product;
44         } else {
45             System.out.println("Invalid index");
46         }
47     }
48     public void removeProduct(int index) {
49         if (index >= 0 && index < nProducts) {
50             products[index]=null;
51         }
52 }
```

```
47    }
48    public void removeProduct(int index) {
49        if (index >= 0 && index < nProducts) {
50
51            products[index]=null;
52
53        } else {
54            System.out.println("Invalid index Cannot remove product.");
55        }
56    }
57    public float calculateprice() {
58        float totalprice=0;
59        for(int i=0;i<nProducts;i++){
60            totalprice+=products[i].getPrice();
61        }
62        return totalprice;
63    }
64    public void placeOrder(int ch){
65        Order order = new Order(customerId,1,calculateprice(),products);
66        switch(ch)
67        {
68            case 1:
69                order.printOrderInfo();
70                break ;
71            case 2:
72                System.out.println("Thank you for your visiting ");
73                break ;
74        }
75    }
```



```
53    }
54    } else {
55        System.out.println("Invalid index Cannot remove product.");
56    }
57    }
58    public float calculateprice() {
59        float totalprice=0;
60        for(int i=0;i<nProducts;i++){
61            totalprice+=products[i].getPrice();
62        }
63        return totalprice;
64    }
65    public void placeOrder(int ch){
66        Order order = new Order(customerId,1,calculateprice(),products);
67        switch(ch)
68        {
69            case 1:
70                order.printOrderInfo();
71                break ;
72            case 2:
73                System.out.println("Thank you for your visiting ");
74                break ;
75        }
76    }
77    }
78    }
79    }
80    }
81    }
```

```
Output - Run (project) x
Welcome to the E-commerce System
Please Enter your id
23011558
Please Enter your name
malak
Please Enter your address
Alex
How many Products you want to your cart?
4
Which Products Would you like to add? 1-Smartphone 2-T-shirt 3-OOP
2
Which Products Would you like to add? 1-Smartphone 2-T-shirt 3-OOP
3
Which Products Would you like to add? 1-Smartphone 2-T-shirt 3-OOP
2
Which Products Would you like to add? 1-Smartphone 2-T-shirt 3-OOP
1
your total is $ 679.95996Would you want to place your order? 1- yes 2- No
```

```
Output - Run (project) x
2
Which Products Would you like to add? 1-Smartphone 2-T-shirt 3-OOP
3
Which Products Would you like to add? 1-Smartphone 2-T-shirt 3-OOP
2
Which Products Would you like to add? 1-Smartphone 2-T-shirt 3-OOP
1
your total is $ 679.95996Would you want to place your order? 1- yes 2- No
1
Here's your order's Summary:
Order ID: 1
Customer ID: 23011558
Products:
T-shirt - $19.99
OOP - $39.99
T-shirt - $19.99
Smartphone - $599.99
Total Price: $679.95996
-----
```