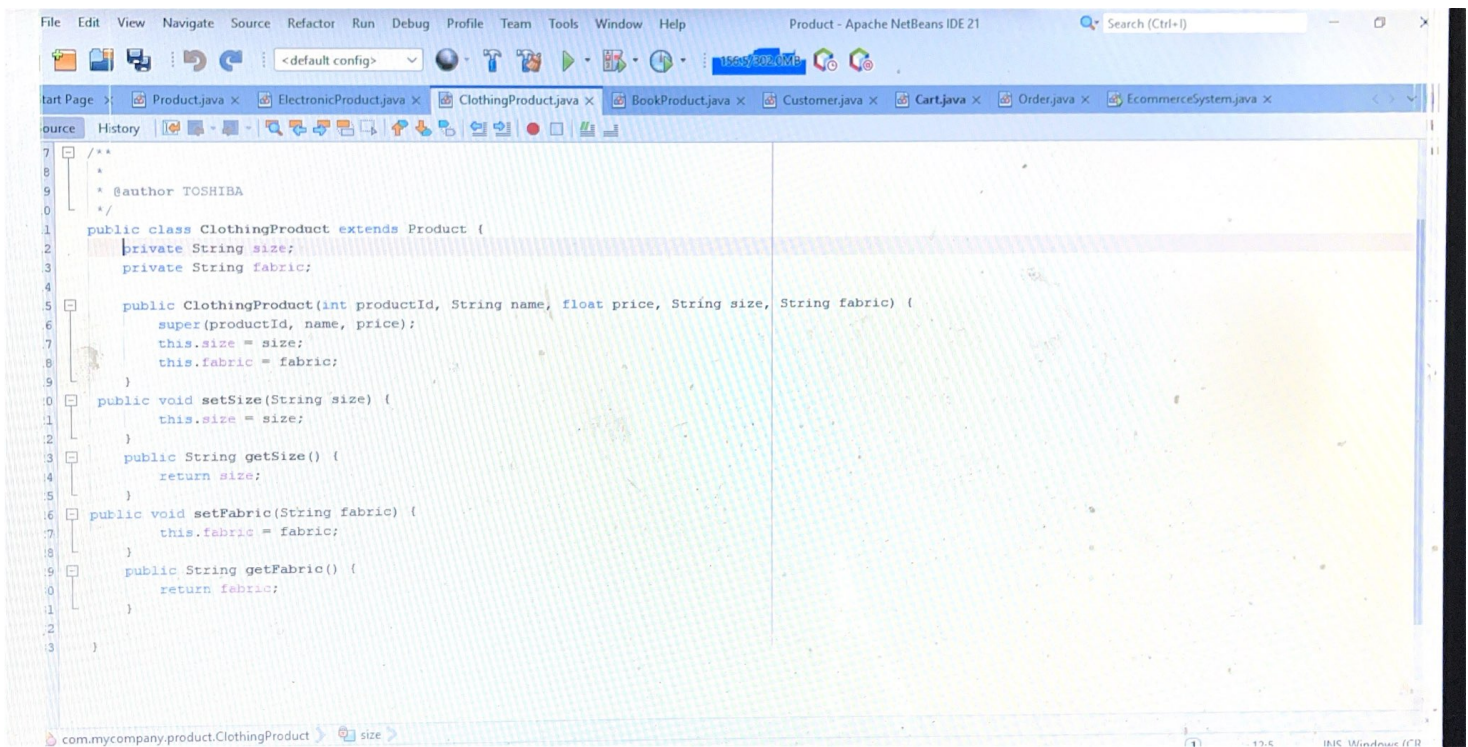


The screenshot shows an IDE window with multiple tabs. The active tab is `Product.java`. The code defines a `Product` class with the following structure:

```
1 public class Product {  
2     protected int productId;  
3     protected String name;  
4     protected float price;  
5  
6     public Product(int productId, String name, float price) {  
7         this.productId = Math.abs(productId);  
8         this.name = name;  
9         this.price = Math.abs(price);  
10    }  
11  
12    public void setProductId(int productId) {  
13        this.productId = Math.abs(productId);  
14    }  
15  
16    public int getProductId() {  
17        return productId;  
18    }  
19  
20    public void setName(String name) {  
21        this.name = name;  
22    }  
23  
24    public String getName() {  
25        return name;  
26    }  
27  
28    public void setPrice(float price) {  
29        this.price = Math.abs(price);  
30    }  
31  
32    public float getPrice() {  
33        return price;  
34    }  
35 }  
36 }
```

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Product - Apache NetBeans IDE 21 Search (Ctrl+I)
Start Page Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java Order.java EcommerceSystem.java
Source History
9  * @author TOSHIBA
10 */
1 public class ElectronicProduct extends Product {
2     private String brand;
3     private int warrantyPeriod;
4
5     public ElectronicProduct(int productId, String name, float price, String brand, int warrantyPeriod) {
6         super(productId, name, price);
7         this.brand = brand;
8         this.warrantyPeriod = Math.abs(warrantyPeriod);
9     }
10    public void setBrand(String brand) {
11        this.brand = brand;
12    }
13
14    public String getBrand() {
15        return brand;
16    }
17
18    public void setWarrantyPeriod(int warrantyPeriod) {
19        this.warrantyPeriod = Math.abs(warrantyPeriod);
20    }
21    public int getWarrantyPeriod() {
22        return warrantyPeriod;
23    }
24
25 }
```

1 10:4 INS Windows (CR





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Product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Customer.java x Cart.java x Order.java x EcommerceSystem.java x

source History

```
7  /**
8   *
9   * @author TOSHIBA
10  */
11  public class BookProduct extends Product {
12      private String author;
13      private String publisher;
14
15      public BookProduct(int productId, String name, float price, String author, String publisher) {
16          super(productId, name, price);
17          this.author = author;
18          this.publisher = publisher;
19      }
20
21      public void setauthor(String author) {
22          this.author = author;
23      }
24
25      public String getauthor() {
26          return author;
27      }
28
29      public void setpublisher(String publisher) {
30          this.publisher = publisher;
31      }
32
33      public String getpublisher() {
34          return publisher ;
35      }
36  }
```

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Product - Apache NetBeans IDE 21 Search (Ctrl+I)

Product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Customer.java x Cart.java x Order.java x EcommerceSystem.java x

Source History

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

com.mvcompany.product.Customer qetAddress

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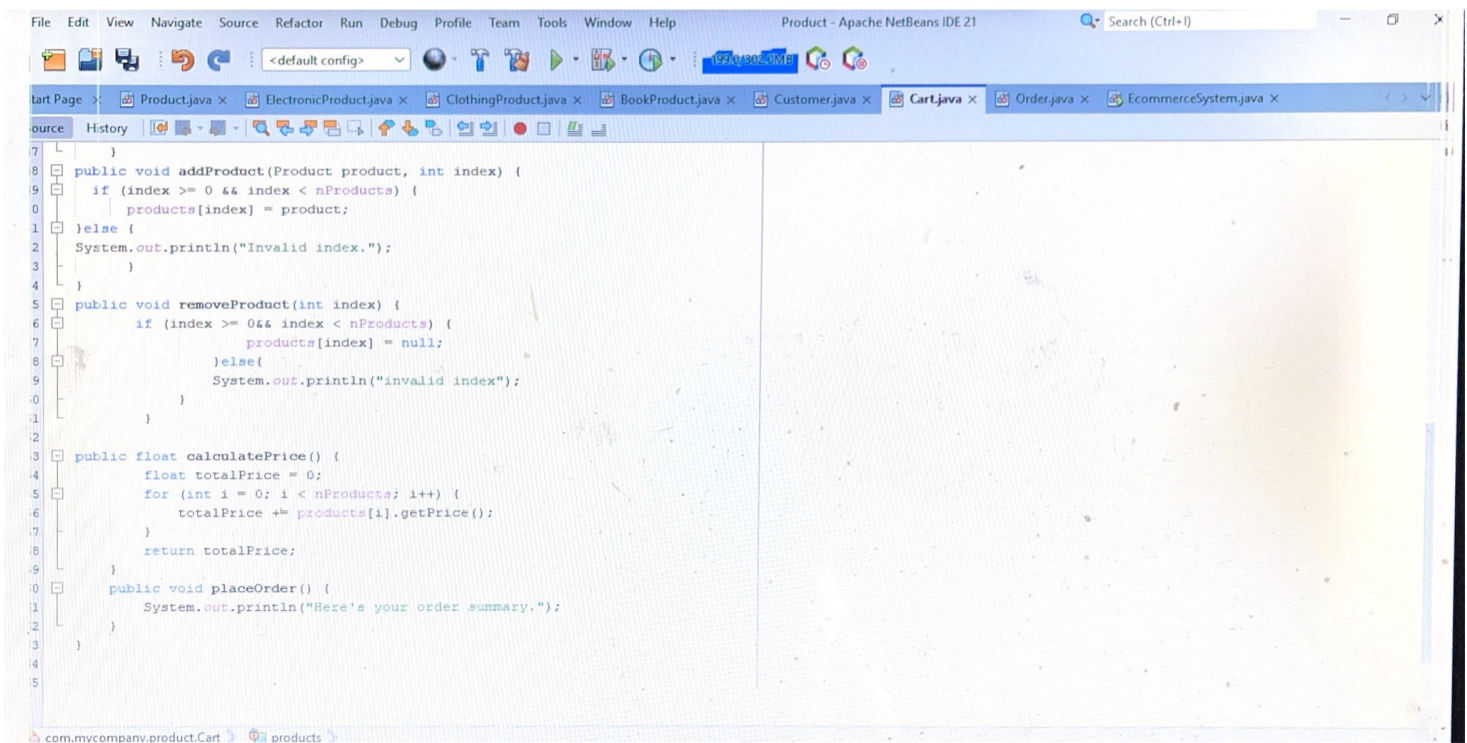
Product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Customer.java x Cart.java x Order.java x EcommerceSystem.java x

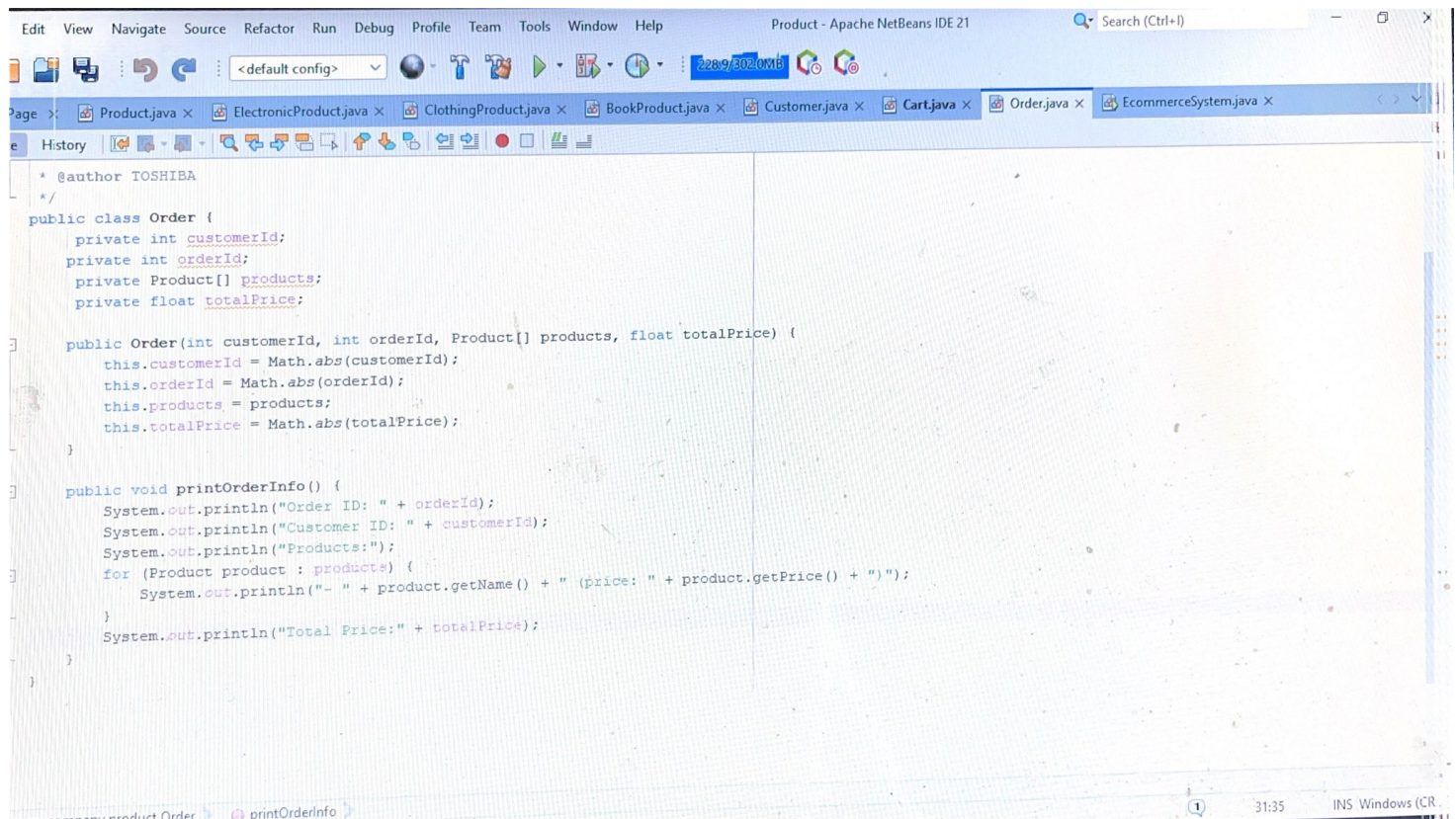
Source History

```
1 public class Cart {
2     private int customerId;
3     private int nProducts;
4     private Product[] products;
5     public Cart(int customerId, int nProducts) {
6         this.customerId = Math.abs(customerId);
7         this.nProducts = Math.abs(nProducts);
8         this.products = new Product[nProducts];
9     }
10    public void setCustomerId(int customerId) {
11        this.customerId = Math.abs(customerId);
12    }
13    public int getCustomerId() {
14        return customerId;
15    }
16    public void setNProducts(int nProducts) {
17        this.nProducts = Math.abs(nProducts);
18    }
19    public int getNProducts() {
20        return nProducts;
21    }
22    public void setProducts(Product[] products) {
23        this.products = products;
24    }
25    public Product[] getProducts() {
26        return products;
27    }
28    public void addProduct(Product product, int index) {
29        if (index >= 0 && index < nProducts) {
30            products[index] = product;
31        }
32    }
33 }
```

com.mycompany.product.Cart products









```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Product - Apache NetBeans IDE 21 Search (Ctrl+I)
<default config> 2420/5320MB
Product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Customer.java x Cart.java x Order.java x EcommerceSystem.java x
Source History
1 import java.util.Scanner;
2
3 public class EcommerceSystem {
4     public static void main(String[] args) {
5         Scanner input = new Scanner(System.in);
6         ElectronicProduct el=new ElectronicProduct(1,"smartphone",599.9f,"samsung",1);
7         ClothingProduct cl=new ClothingProduct(2,"Tshirt",19.99f,"medium","cotton");
8         BookProduct bl=new BookProduct(3,"oop",39.99f,"O'Reilly","X publications");
9         System.out.println("Welcome to the E-Commerce System!");
10        System.out.println("Please enter your id:");
11        int customerId = Math.abs(input.nextInt());
12        input.nextLine();
13        System.out.println("Please enter your name:");
14        String name = input.nextLine();
15
16        System.out.println("Please enter your address:");
17        String address = input.nextLine();
18
19        Customer customer = new Customer(customerId, name, address);
20
21        System.out.println("How many products you want to add to your cart?");
22        int nProducts = Math.abs(input.nextInt());
23
24        Cart cart = new Cart(customer.getCustomerId(), nProducts);
25
26        for (int i = 0; i < nProducts; i++) {
27            System.out.println("Which product would you like to add?");
28            System.out.println("1- Smartphone");
29            System.out.println("2- T-Shirt");
30            System.out.println("3- Book");
31        }
32    }
33 }
```

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<default config> 226.41302.0 MB

Product.java × ElectronicProduct.java × ClothingProduct.java × BookProduct.java × Customer.java × Cart.java × Order.java × EcommerceSystem.java ×

source History

```
1      int choice = input.nextInt();
2
3      switch (choice) {
4          case 1:
5              cart.addProduct(e1,i);
6              break;
7          case 2:
8              cart.addProduct(c1,i);
9              break;
10         case 3:
11             cart.addProduct(b1,i);
12             break;
13         default:
14             System.out.println("Invalid choice!");
15     }
16
17     float totalPrice = cart.calculatePrice();
18     System.out.println("Your total is $" + totalPrice + ". Would you like to place the order?1=yes 2=no");
19
20     int orderChoice =input.nextInt();
21     if (orderChoice == 1) {
22         cart.placeOrder();
23         Order order = new Order(customerId, 1, cart.getProducts(), totalPrice);
24         order.printOrderInfo();
25     }
26     else {
27         System.out.println("Order not placed.");
28     }
29 }
```

