

```
1 package oopproject;
2 import java.util.Scanner;
3
4 public class Oopproject {
5
6
7     public static void main(String[] args) {
8         ElectronicProduct P1 = new ElectronicProduct (brand: "Samsung", warrantyPeriod:1, productId: 1, name: "Smartphone", price: 599
9         ClothingProduct C = new ClothingProduct (size: "medium", fabric: "cotton", productId: 2, name: "T-shirt", price: 19.99f);
10        BookProduct B = new BookProduct (author: "O Reilly", publisher: "X Publication", productId: 3, name: "OOP", price: 39.99f);
11        Scanner scanner = new Scanner (source: System.in);
12        System.out.println(x: "Enter customer Id");
13        int customerId = scanner.nextInt();
14        System.out.println(x: "Enter customer name");
15        scanner.nextLine();
16        String name = scanner.nextLine();
17        System.out.println(x: "Enter customer address");
18        String address = scanner.nextLine();
19        Customer customer = new Customer(customerId, name, address);
20        System.out.println(x: "Enter the number of products");
21        int nProducts = scanner.nextInt();
22        Cart cart = new Cart(customerId, nProducts);
23        product[] products = new product[nProducts];
```

18:34

INS Windows (CRLF

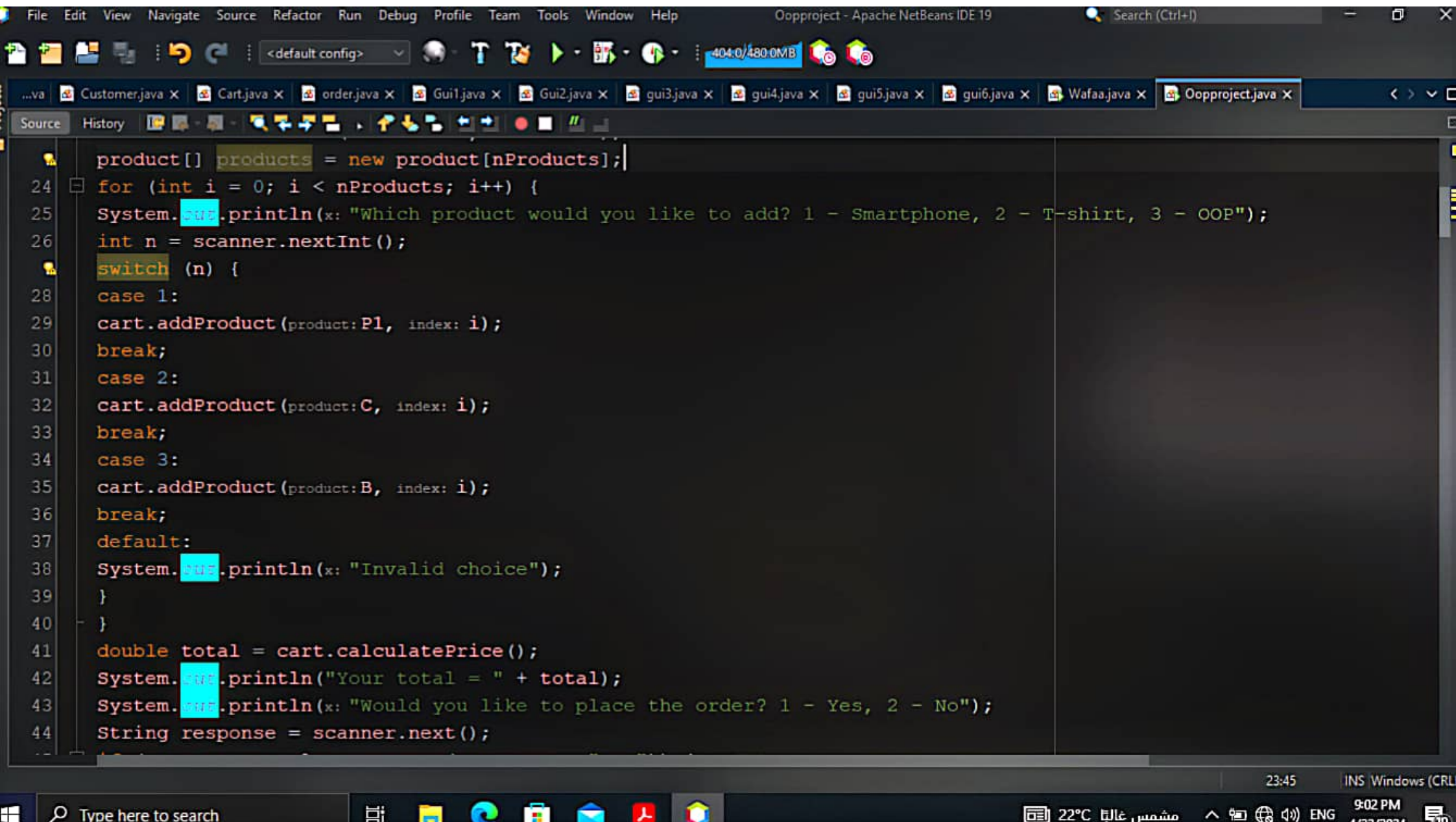
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22°C مشمس غالباً

ENG

9:02 PM

4/22/2024



```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Oopproject - Apache NetBeans IDE 19
Search (Ctrl+I)
404.0/480.0MB
...va Customer.java X Cart.java X order.java X Gui1.java X Gui2.java X gui3.java X gui4.java X gui5.java X gui6.java X Wafaa.java X Oopproject.java X
Source History
product[] products = new product[nProducts];
24 for (int i = 0; i < nProducts; i++) {
25     System.out.println(x: "Which product would you like to add? 1 - Smartphone, 2 - T-shirt, 3 - OOP");
26     int n = scanner.nextInt();
27     switch (n) {
28     case 1:
29         cart.addProduct(product: P1, index: i);
30         break;
31     case 2:
32         cart.addProduct(product: C, index: i);
33         break;
34     case 3:
35         cart.addProduct(product: B, index: i);
36         break;
37     default:
38         System.out.println(x: "Invalid choice");
39     }
40 }
41 double total = cart.calculatePrice();
42 System.out.println("Your total = " + total);
43 System.out.println(x: "Would you like to place the order? 1 - Yes, 2 - No");
44 String response = scanner.next();
```

23:45

INS Windows (CRL

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22°C مشمس غالي

ENG

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1/22/2024



```
44 String response = scanner.next();
45 if (response.equalsIgnoreCase(anotherString: "yes")) {
46     System.out.println(x: "here is your order's summary");
47     Order order = new Order(customerId, orderId:1, products: cart.getProducts(), (float) cart.calculatePrice());
48     order.printOrderInfo();
49 } else {
50     System.out.println(x: "Order not placed.");
51 }
52 }
53 }
54
55 class product {
56     protected int productId;
57     protected String name;
58     protected float price;
59     public int getProductId() {
60         return productId;
61     }
62     public void setProductId(int productId) {
63         this.productId = productId;
64     }
65     public String getName() {
66         return name;
```

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299.0/480.0MB

Customer.java X Cart.java X order.java X Gui1.java X Gui2.java X gui3.java X gui4.java X gui5.java X gui6.java X Wafaa.java X Oopproject.java X

Source History

```
65 public String getName() {
66     return name;
67 }
68 public void setName(String name) {
69     this.name = name;
70 }
71 public float getPrice() {
72     return price;
73 }
74 public void setPrice(float price) {
75     this.price = price;
76 }
77 public product() {
78 }
79 public product(int productId, String name, float price) {
80     this.productId = Math.abs(a: productId);
81     this.name = name;
82     this.price = Math.abs(a: price);
83 }
84 }
85 class ElectronicProduct extends product {
86     private String brand;
```



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328.0/480.0MB

Customer.java x Cart.java x order.java x Gui1.java x Gui2.java x gui3.java x gui4.java x gui5.java x gui6.java x Wafaa.java x Oopproject.java x

Source History

```
86 private String brand;
87 private int warrantyPeriod;
88 public ElectronicProduct(String brand, int warrantyPeriod, int productId, String name, float price) {
89     super(productId, name, price);
90     this.brand = brand;
91     this.warrantyPeriod = Math.abs(a: warrantyPeriod);
92 }
93 // Getter and setter methods for brand
94 public String getBrand() {
95     return brand;
96 }
97 public void setBrand(String brand) {
98     this.brand = brand;
99 }
100 // Getter and setter methods for warrantyPeriod
101 public int getWarrantyPeriod() {
102     return Math.abs(a: warrantyPeriod);
103 }
104 public void setWarrantyPeriod(int warrantyPeriod) {
105     this.warrantyPeriod = Math.abs(a: warrantyPeriod);
106 }
107 class ClothingProduct extends product {
108     private String size;
109     private String fabric;
```

53:2 INS Windows (CRL 9:02 PM

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```
private String 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;
}
public ClothingProduct() {
}
public ClothingProduct(String size, String fabric) {
    this.size = size;
    this.fabric = fabric;
}
public ClothingProduct(String size, String fabric, int productId, String name, float price) {
    super(productId, name, price);
    this.size = size;
}
```

```
    this.publisher = publisher;
}
}

class BookProduct extends product {
private String author;
private String 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;
}

public BookProduct() {
}

public BookProduct(String author, String publisher) {
this.author = author;
this.publisher = publisher;
}
```



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Customer.java X Cart.java X order.java X Gui1.java X Gui2.java X gui3.java X gui4.java X gui5.java X gui6.java X Wafaa.java X Oopproject.java X

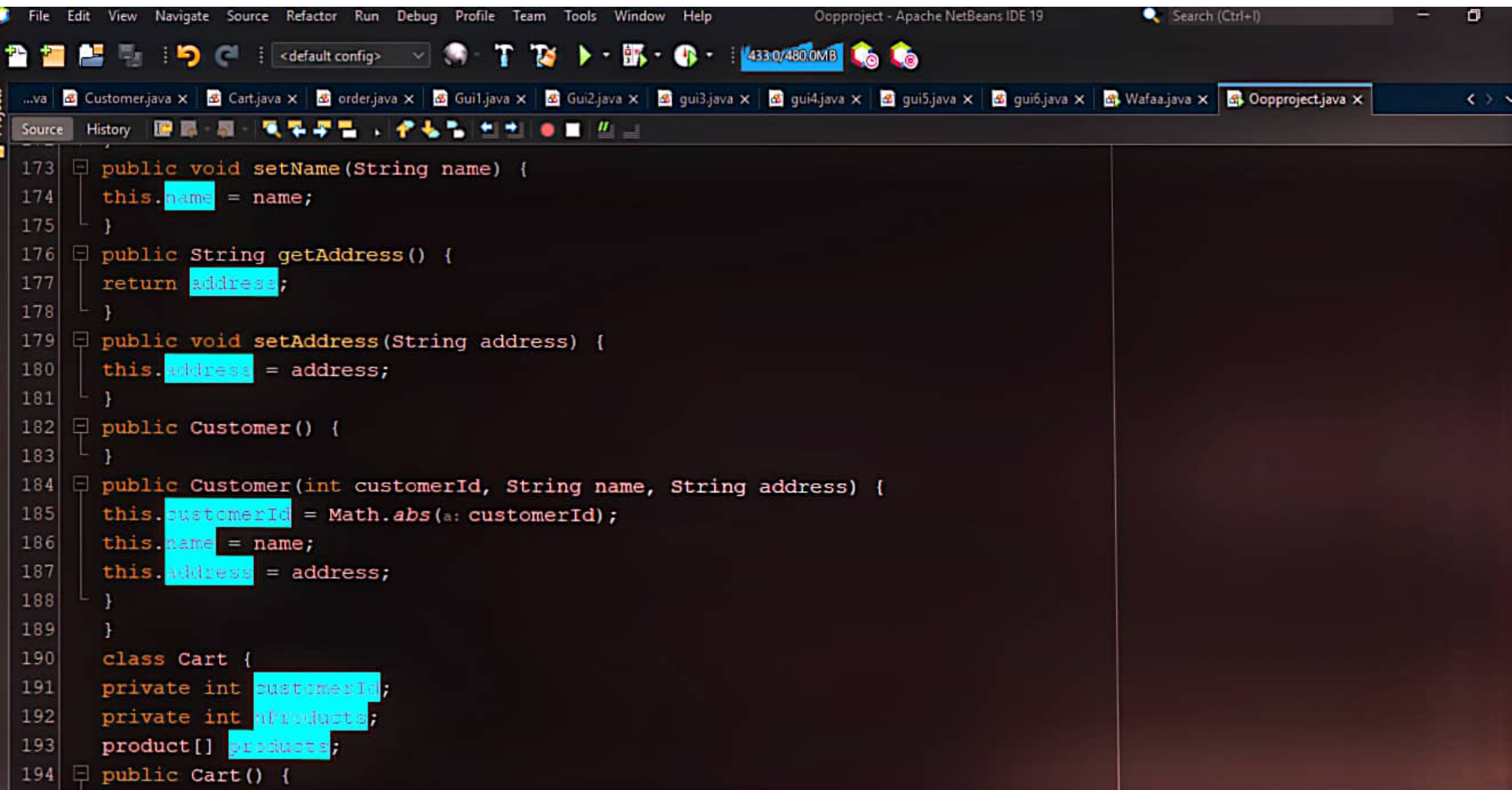
Source History

```
151 this.author = author;
152 this.publisher = publisher;
153 }
154 public BookProduct(String author, String publisher, int productId, String name, float price) {
155     super(productId, name, price);
156     this.author = author;
157     this.publisher = publisher;
158 }
159 }
160 class Customer {
161     int customerId;
162     String name;
163     String address;
164     public int getCustomerId() {
165         return customerId;
166     }
167     public void setCustomerId(int customerId) {
168         this.customerId = customerId;
169     }
170     public String getName() {
171         return name;
172     }
173     public void setName(String name) {
```

53:2 INS Windows (CRL 9:03 PM 1/21/2024)

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The screenshot shows the Apache NetBeans IDE 19 interface. The top menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, and Help. The title bar indicates the project is 'Oopproject - Apache NetBeans IDE 19'. A search bar with the text 'Search (Ctrl+I)' is on the right. Below the menu bar is a toolbar with various icons, including a configuration dropdown set to '<default config>'. The status bar at the bottom left shows '433.0/480.0MB' of memory usage. The main editor window displays the source code for 'Oopproject.java'. The code defines a 'Customer' class with methods 'setName', 'getAddress', and 'setAddress', and a constructor. It also defines an inner 'Cart' class with private attributes 'customerId', 'products', and 'product[]', and a constructor. Line numbers 173 through 194 are visible on the left margin. The code is as follows:

```
173 public void setName(String name) {
174     this.name = name;
175 }
176 public String getAddress() {
177     return address;
178 }
179 public void setAddress(String address) {
180     this.address = address;
181 }
182 public Customer() {
183 }
184 public Customer(int customerId, String name, String address) {
185     this.customerId = Math.abs(customerId);
186     this.name = name;
187     this.address = address;
188 }
189 }
190 class Cart {
191     private int customerId;
192     private int products;
193     product[] products;
194 public Cart() {
```

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...va Customer.java x Cart.java x order.java x Gui1.java x Gui2.java x gui3.java x gui4.java x gui5.java x gui6.java x Wafaa.java x Oopproject.java x

Source History

```
194 public Cart() {
195 }
196 public Cart(int customerId, int nProducts) {
197     this.customerId = customerId;
198     this.nProducts = nProducts;
199     this.products = new product[nProducts];
200 }
201 public int getCustomerId() {
202     return customerId;
203 }
204 public void setCustomerId(int customerId) {
205     this.customerId = customerId;
206 }
207 public int getNProducts() {
208     return nProducts;
209 }
210 public void setNProducts(int nProducts) {
211     this.nProducts = nProducts;
212 }
213 public product[] getProducts() {
214     return products;
215 }
216 public void setProducts(product[] products) {
```

53:2 INS Windows (CRL

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242.3/486.0MB

Customer.java x Cart.java x order.java x Gui1.java x Gui2.java x gui3.java x gui4.java x gui5.java x gui6.java x Wafaa.java x Oopproject.java x

Source History

```
215 }
216 public void setProducts(product[] products) {
217     this.products = products;
218 }
219 public void addProduct(product product, int index) {
220     if (index < nProducts) {
221         products[index] = product;
222     }
223 }
224 public void removeproduct() {
225 }
226
227
228 public double calculatePrice() {
229     double totalPrice = 0;
230     for (product product : products) {
231         if (product != null) {
232             totalPrice += product.price;
233         }
234     }
235     return totalPrice;
236 }
237
```

231:23 INS Windows (CRL

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302.4/486.0MB

Customer.java X Cart.java X order.java X Gui1.java X Gui2.java X gui3.java X gui4.java X gui5.java X gui6.java X Wafaa.java X Oopproject.java X

Source History

```
233 }
234 }
235 return totalPrice;
236 }
237
238
239 public void placeorder(){
240     System.out.println(x: "the order is placed");
241 }
242 }
243 }
244 class Order {
245     int customerId;
246     int orderId;
247     product[] products;
248     float totalPrice;
249     public Order(int customerId, int orderId, product[] products, float totalPrice) {
250         this.customerId = Math.abs(a: customerId);
251         this.orderId = Math.abs(a: orderId);
252         this.products = products;
253         this.totalPrice = Math.abs(a: totalPrice);
254     }
255     public void printOrderInfo() {
```

231:23 INS Windows (CRLF) 9:03 PM 4/22/2024

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...va Customer.java X Cart.java X order.java X Gui1.java X Gui2.java X gui3.java X gui4.java X gui5.java X gui6.java X Wafaa.java X Oopproject.java X

Source History

```
252 this.products = products;
253 this.totalPrice = Math.abs(a: totalPrice);
254 }
255 public void printOrderInfo() {
256     System.out.println("Order ID: " + orderId);
257     System.out.println("Customer ID: " + customerId);
258     System.out.println(x: "Products:");
259     for (product product : products) {
260         System.out.println(" - " + product.getName() + ": " + product.getPrice());
261     }
262     System.out.println("Total Price: " + totalPrice);
263 }
264 }
265
266
```

256:1 INS Windows (CRL

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```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Oopproject - Apache NetBeans IDE 19 Search (Ctrl+I)
<default config> 330.9/480.0MB

Output - Oopproject (run)

run:
Enter customer Id
23012280
Enter customer name
wafaa Galal
Enter customer address
Alex
Enter the number of products
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 = 679.8700256347656
Would you like to place the order? 1 - Yes, 2 - No
yes
here is your order's summary
Order ID: 1
Customer ID: 23012280
Products:
- T-shirt: 19.99
- OOP: 39.99
- T-shirt: 19.99
- Smartphone: 599.9
Total Price: 679.87
BUILD SUCCESSFUL (total time: 43 seconds)
```