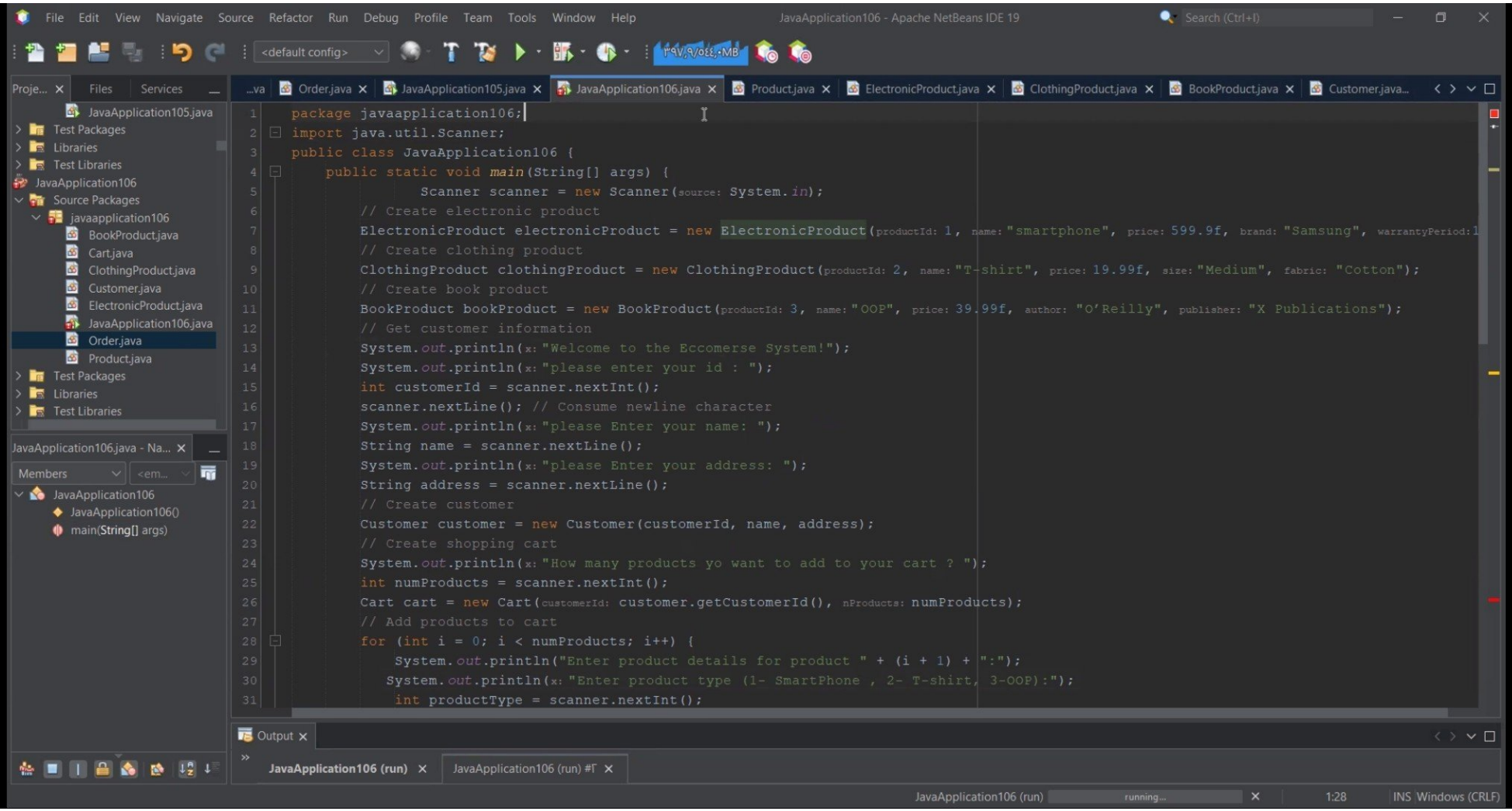
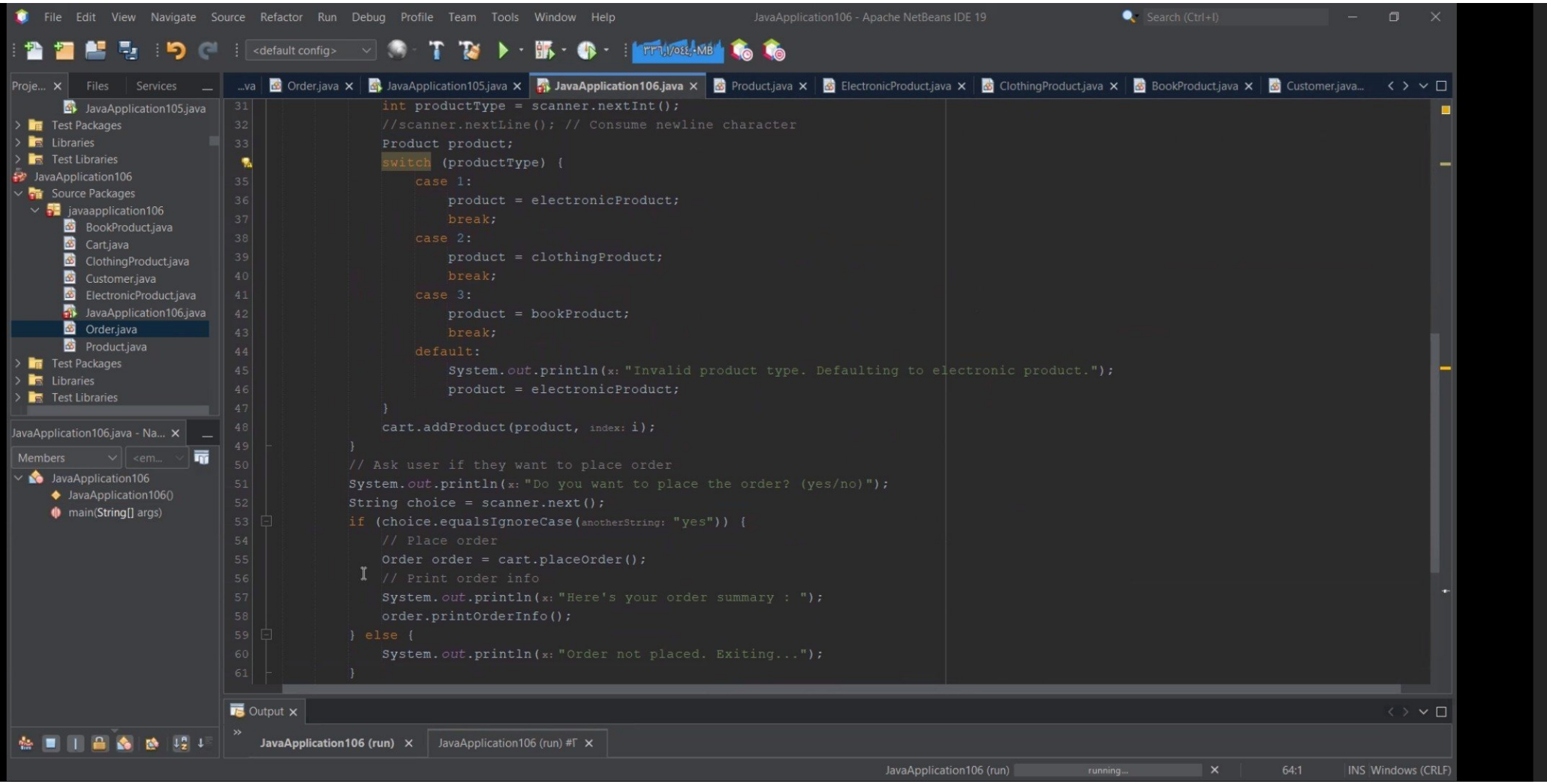
Name : jana wael gaber

ID : 23012089



Main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JavaApplication106()
main(String[] args)
...va
Order.java
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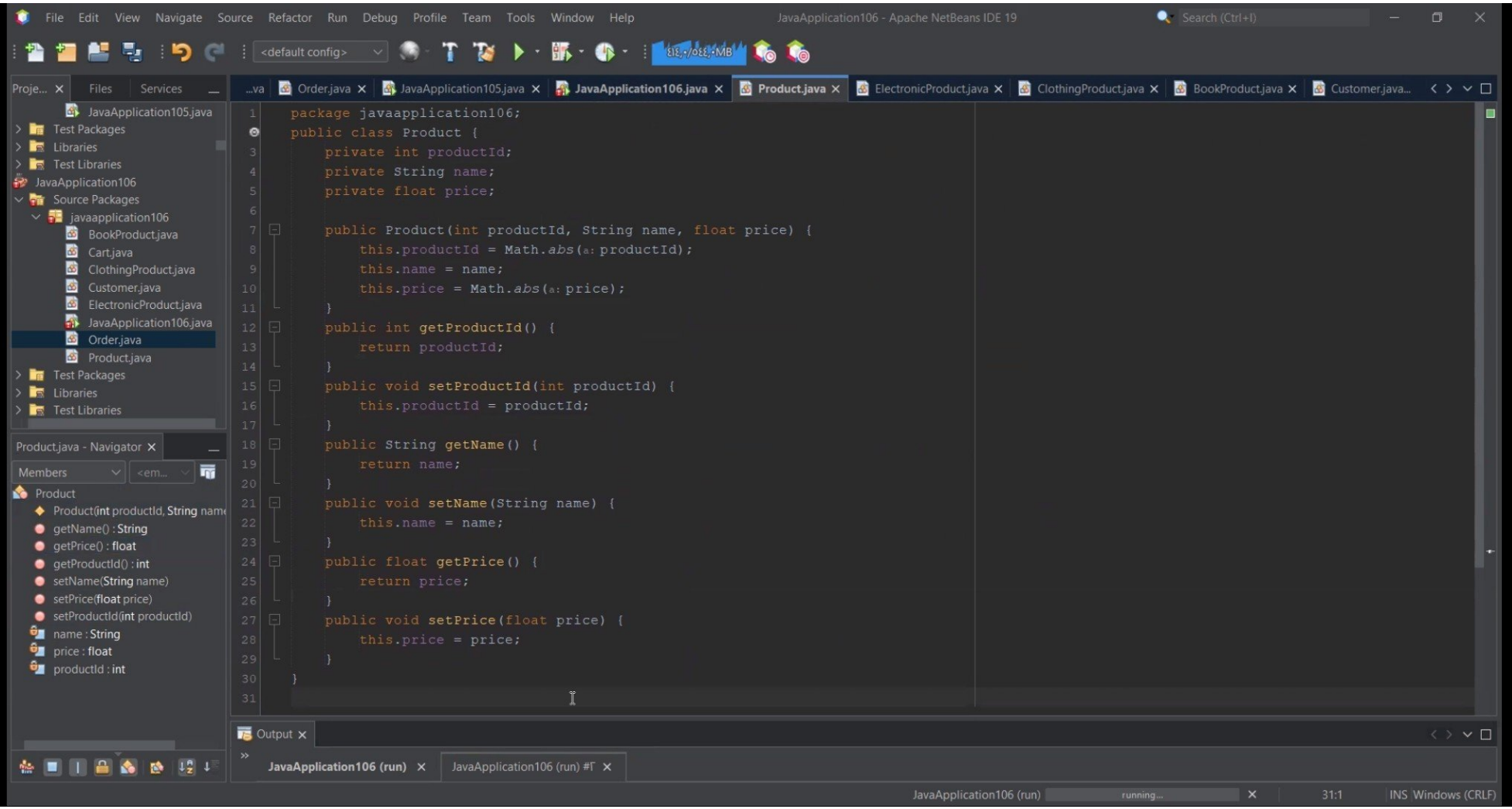
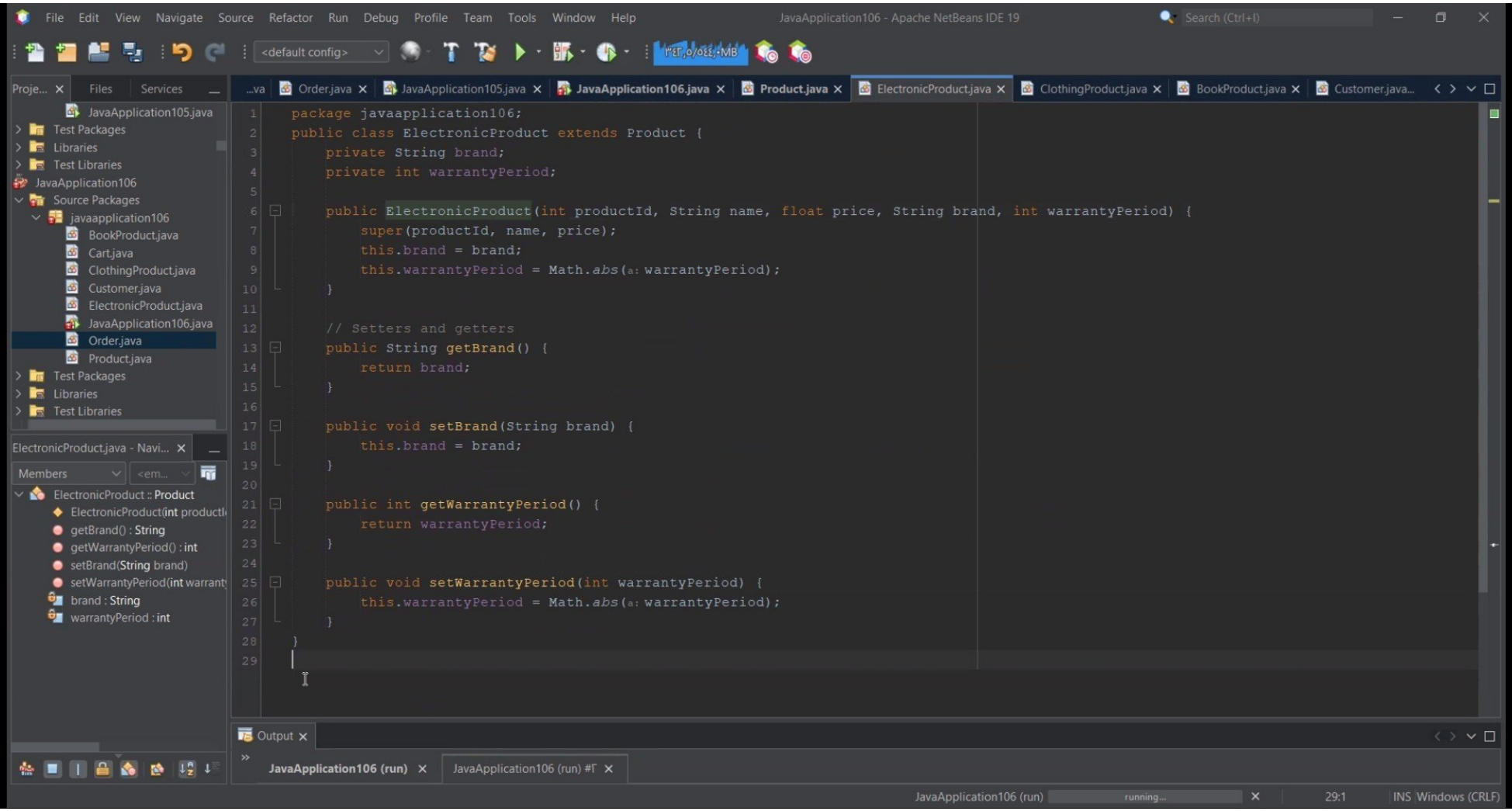
BookProduct.java
Customer.java...
int productType = scanner.nextInt();
//scanner.nextLine(); // Consume newline character
Product product;
switch (productType) {
case 1:
product = electronicProduct;
break;
case 2:
product = clothingProduct;
break;
case 3:
product = bookProduct;
break;
default:
System.out.println(x: "Invalid product type. Defaulting to electronic product.");
product = electronicProduct;
}
cart.addProduct(product, index: i);
}
// Ask user if they want to place order
System.out.println(x: "Do you want to place the order? (yes/no)");
String choice = scanner.next();
if (choice.equalsIgnoreCase(anotherString: "yes")) {
// Place order
Order order = cart.placeOrder();
// Print order info
System.out.println(x: "Here's your order summary : ");
order.printOrderInfo();
} else {
System.out.println(x: "Order not placed. Exiting...");
}
Output
JavaApplication106 (run)
JavaApplication106 (run) #1
JavaApplication106 (run)
running...
64:1
INS Windows (CRLF)

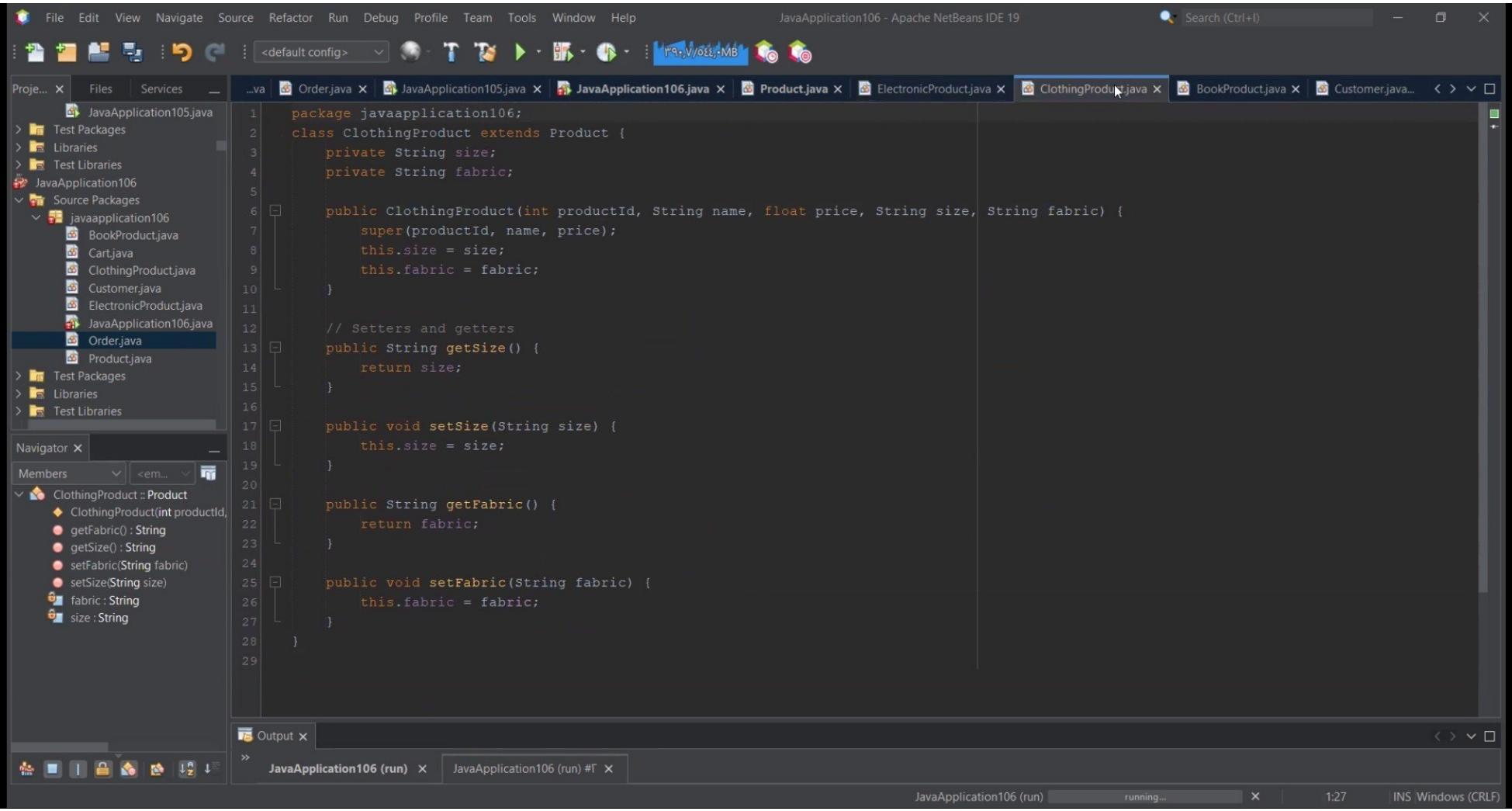
Product Class



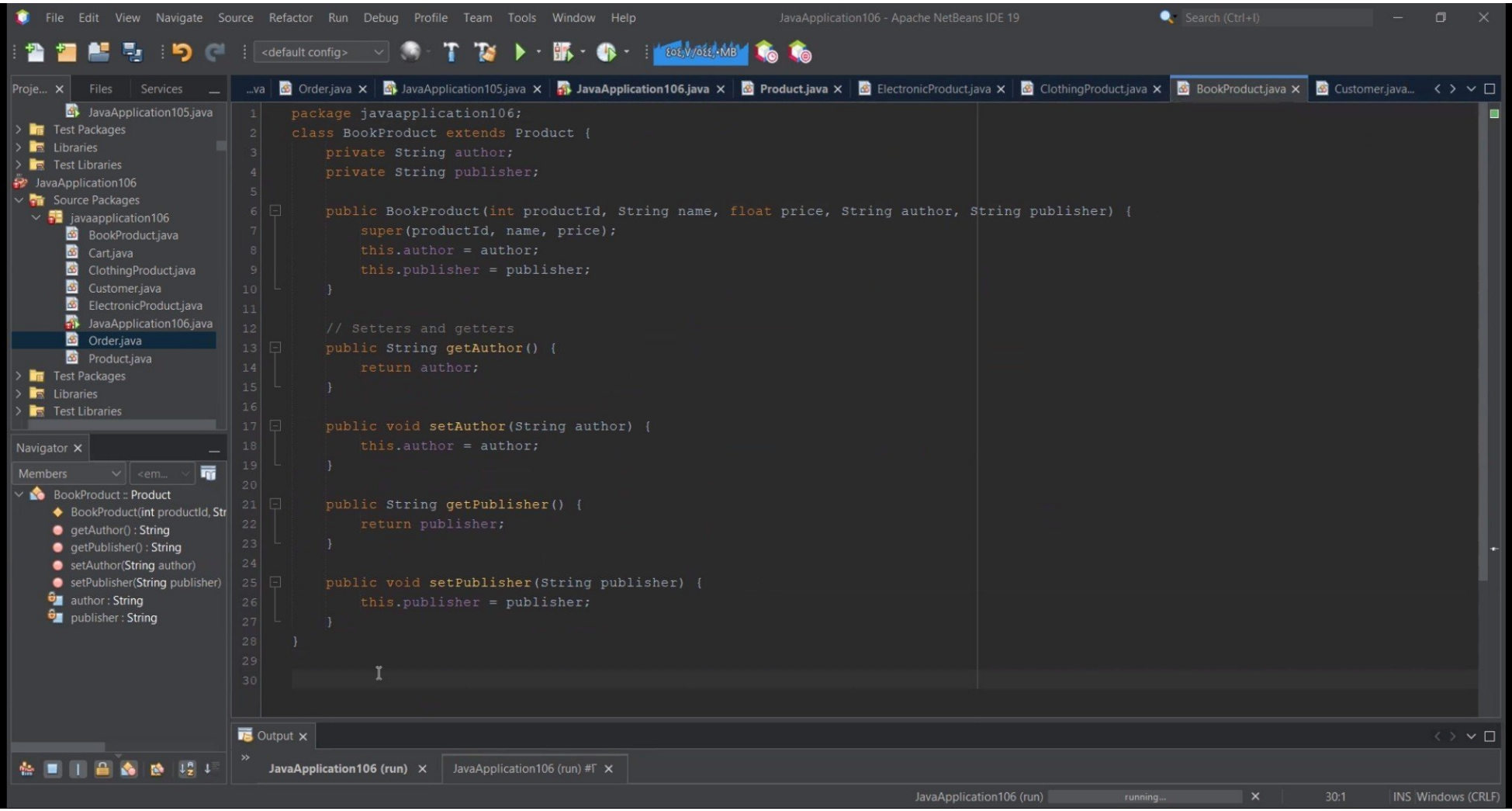
Electronic Product Class

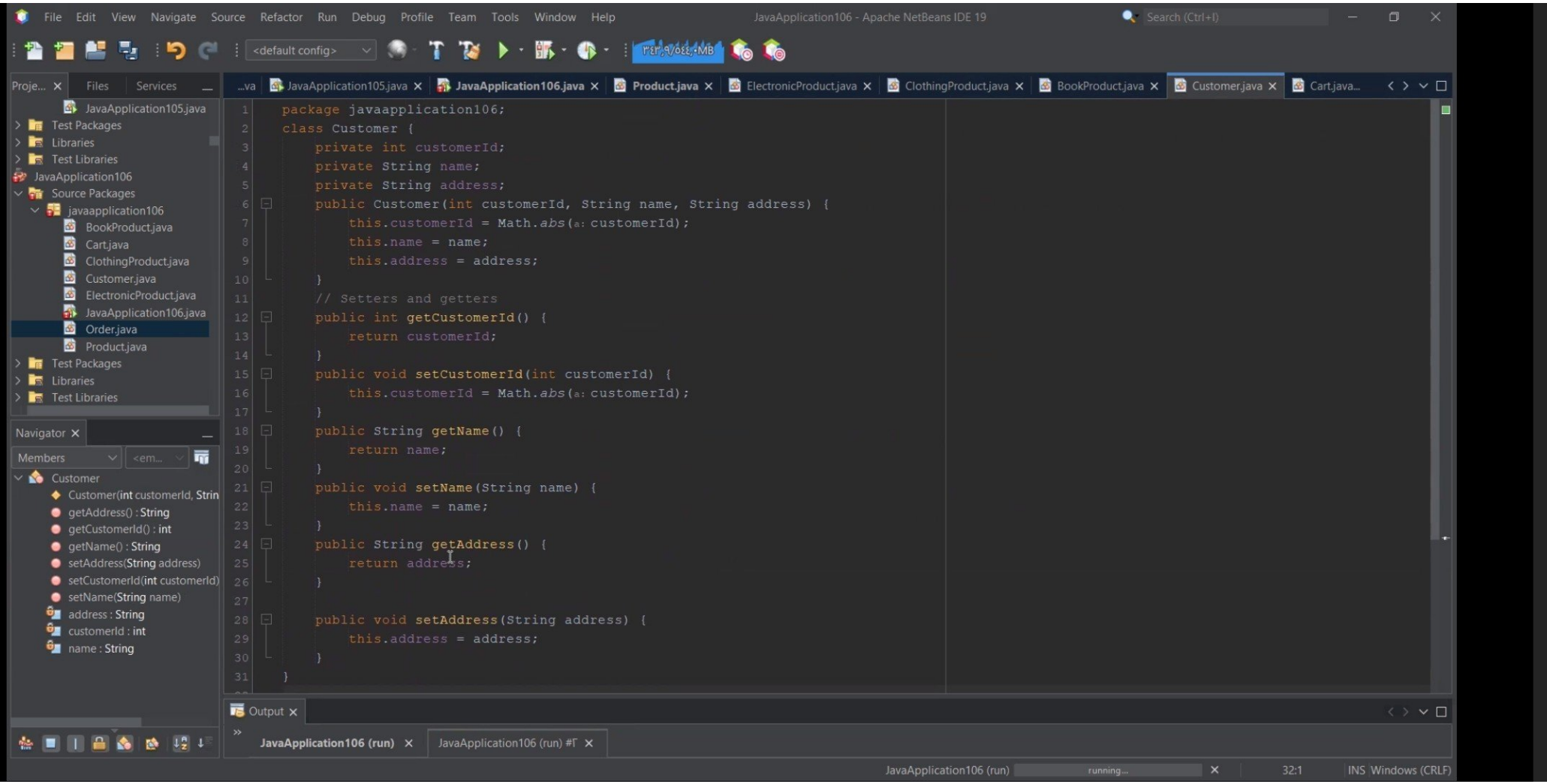


Clothing Product Class



Book Product Class

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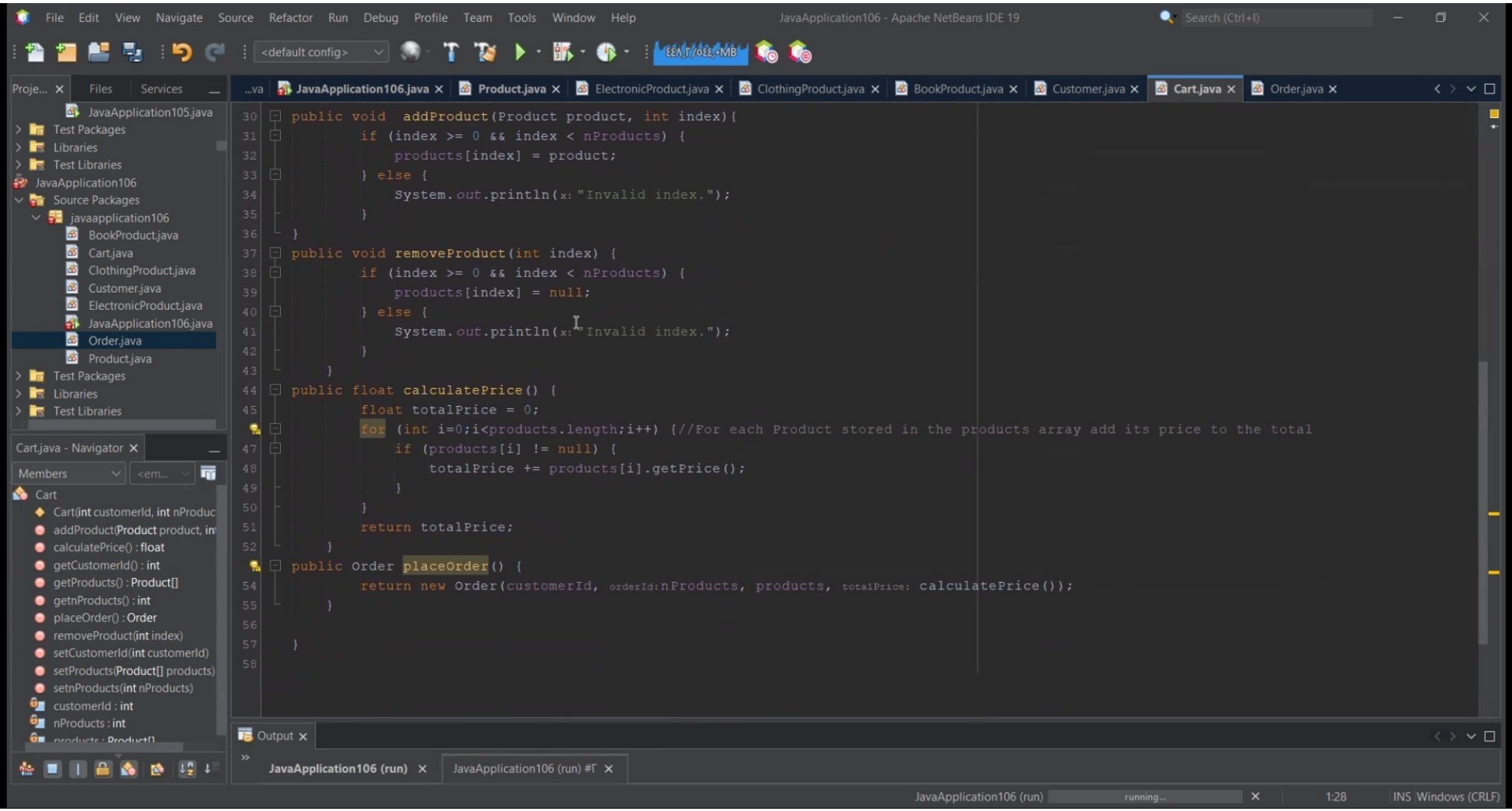
Customer
Customer(int customerId, Strin
getAddress() : String
getCustomerId() : int
getName() : String
setAddress(String address)
setCustomerId(int customerId)
setName(String name)
address : String
customerId : int
name : String
...va JavaApplication105.java JavaApplication106.java Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java...
1 package javaapplication106;
2 class Customer {
3 private int customerId;
4 private String name;
5 private String address;
6 public Customer(int customerId, String name, String address) {
7 this.customerId = Math.abs(a: customerId);
8 this.name = name;
9 this.address = address;
10 }
11 // Setters and getters
12 public int getCustomerId() {
13 return customerId;
14 }
15 public void setCustomerId(int customerId) {
16 this.customerId = Math.abs(a: customerId);
17 }
18 public String getName() {
19 return name;
20 }
21 public void setName(String name) {
22 this.name = name;
23 }
24 public String getAddress() {
25 return address;
26 }
27
28 public void setAddress(String address) {
29 this.address = address;
30 }
31 }
Output
JavaApplication106 (run)
JavaApplication106 (run) #1
JavaApplication106 (run) running...
32:1
INS Windows (CRLF)

Cart Class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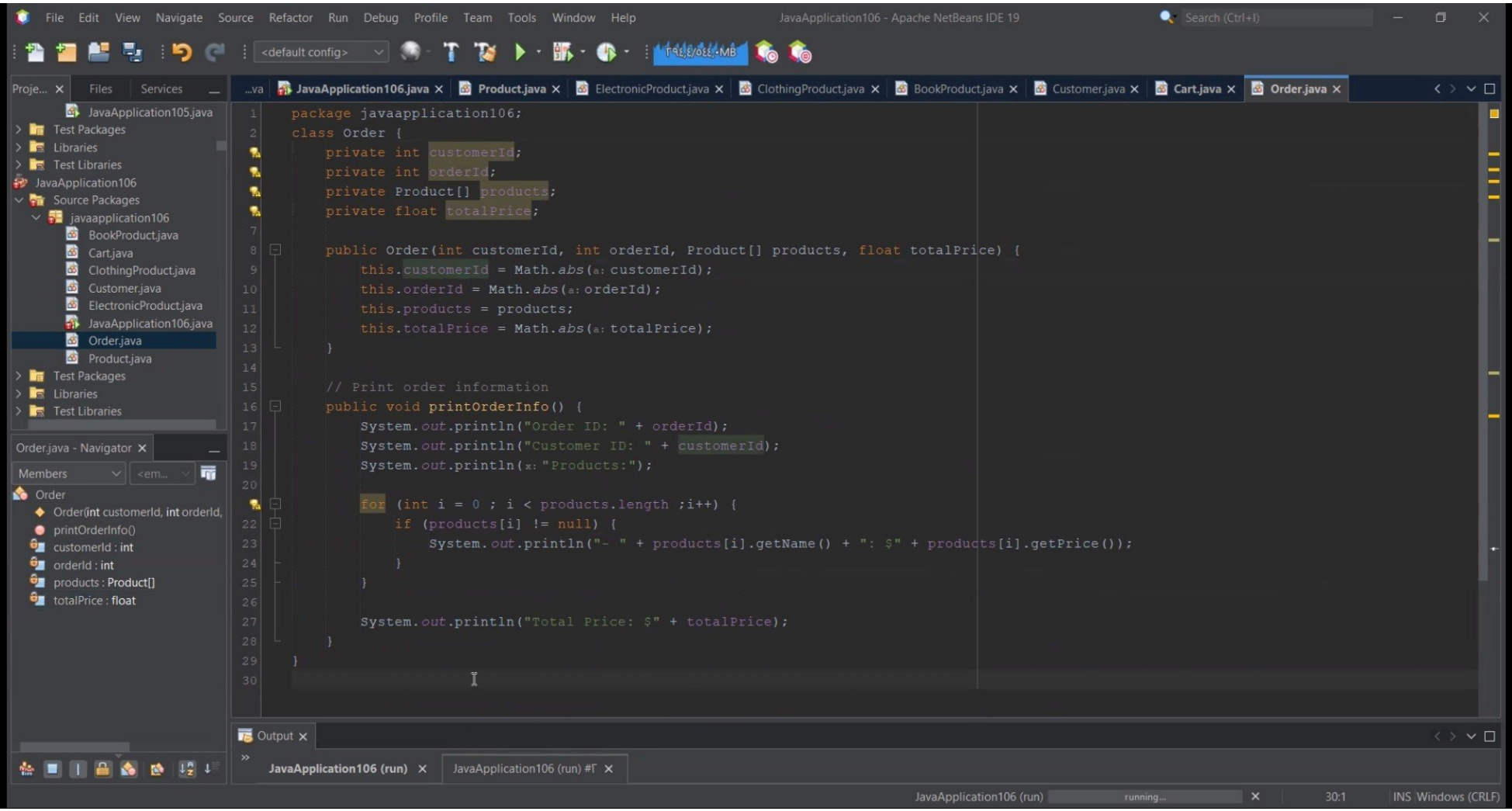
Cart
Cart(int customerId, int nProduc
addProduct(Product product, int
calculatePrice() : float
getCustomerId() : int
getProducts() : Product[]
getnProducts() : int
placeOrder() : Order
removeProduct(int index)
setCustomerId(int customerId)
setProducts(Product[] products)
setnProducts(int nProducts)
customerId : int
nProducts : int
...va JavaApplication106.java Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java Order.java
30 public void addProduct(Product product, int index){
31 if (index >= 0 && index < nProducts) {
32 products[index] = product;
33 } else {
34 System.out.println(x: "Invalid index.");
35 }
36 }
37 public void removeProduct(int index) {
38 if (index >= 0 && index < nProducts) {
39 products[index] = null;
40 } else {
41 System.out.println(x:"Invalid index.");
42 }
43 }
44 public float calculatePrice() {
45 float totalPrice = 0;
47 for (int i=0;i<products.length;i++) {//For each Product stored in the products array add its price to the total
47 if (products[i] != null) {
48 totalPrice += products[i].getPrice();
49 }
50 }
51 return totalPrice;
52 }
54 public Order placeOrder() {
54 return new Order(customerId, orderId:nProducts, products, totalPrice: calculatePrice());
55 }
57 }
Output
JavaApplication106 (run)
JavaApplication106 (run) #Γ
JavaApplication106 (run) running...
1:28
INS Windows (CRLF)

Order Class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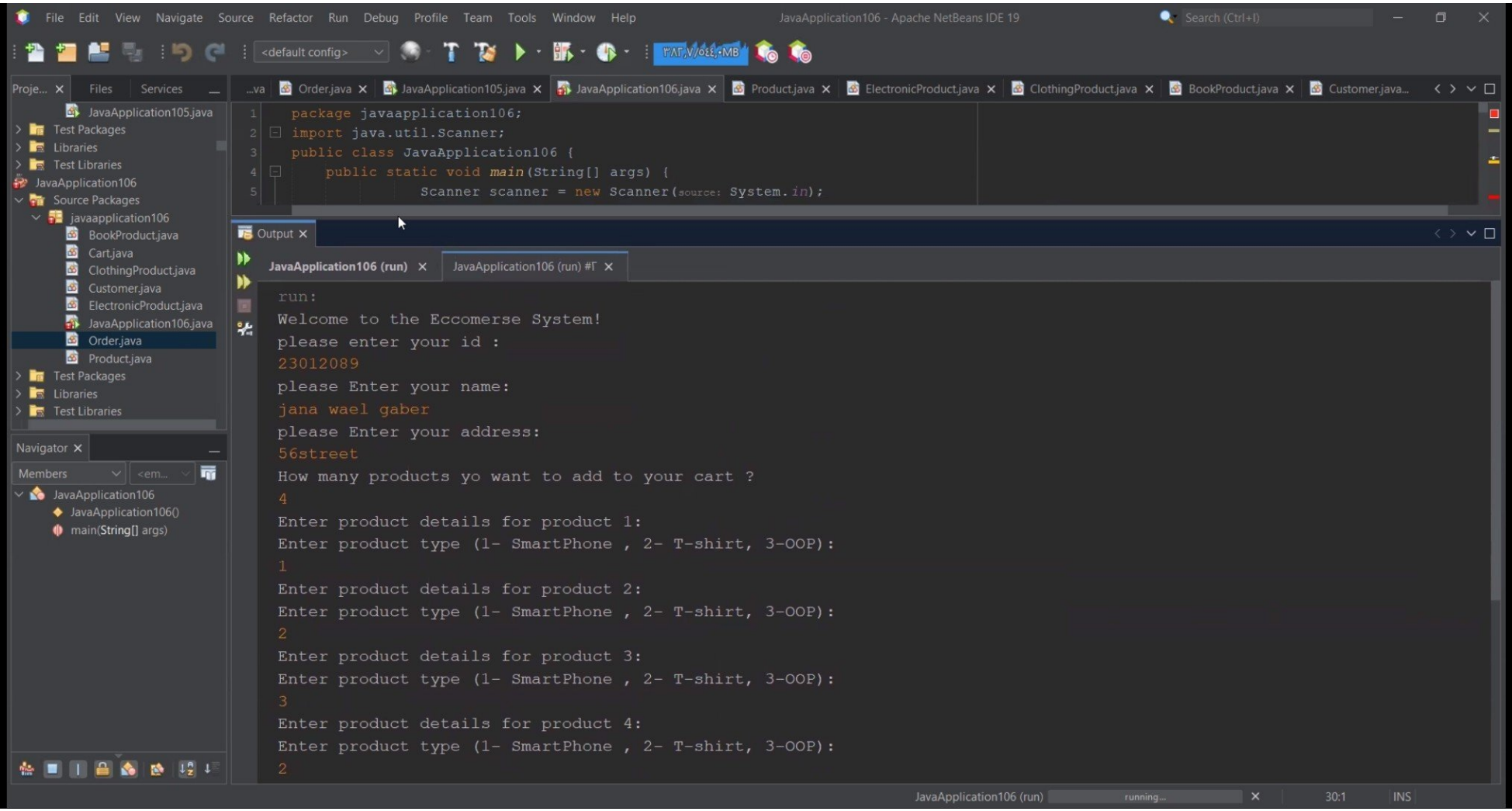
Members
Order
Order(int customerId, int orderId,
printOrderInfo()
customerId : int
orderId : int
products : Product[]
totalPrice : float
...va JavaApplication106.java Product.java ElectronicProduct.java ClothingProduct.java BookProduct.java Customer.java Cart.java Order.java
1 package javaapplication106;
2 class Order {
3 private int customerId;
4 private int orderId;
5 private Product[] products;
6 private float totalPrice;
7
8 public Order(int customerId, int orderId, Product[] products, float totalPrice) {
9 this.customerId = Math.abs(a: customerId);
10 this.orderId = Math.abs(a: orderId);
11 this.products = products;
12 this.totalPrice = Math.abs(a: totalPrice);
13 }
14
15 // Print order information
16 public void printOrderInfo() {
17 System.out.println("Order ID: " + orderId);
18 System.out.println("Customer ID: " + customerId);
19 System.out.println(x: "Products:");
20
22 for (int i = 0 ; i < products.length ;i++) {
23 if (products[i] != null) {
24 System.out.println("- " + products[i].getName() + ": $" + products[i].getPrice());
25 }
26
27 System.out.println("Total Price: $" + totalPrice);
28 }
29 }
30
Output
JavaApplication106 (run)
JavaApplication106 (run) #1
JavaApplication106 (run) running...
30:1
INS Windows (CRLF)

Output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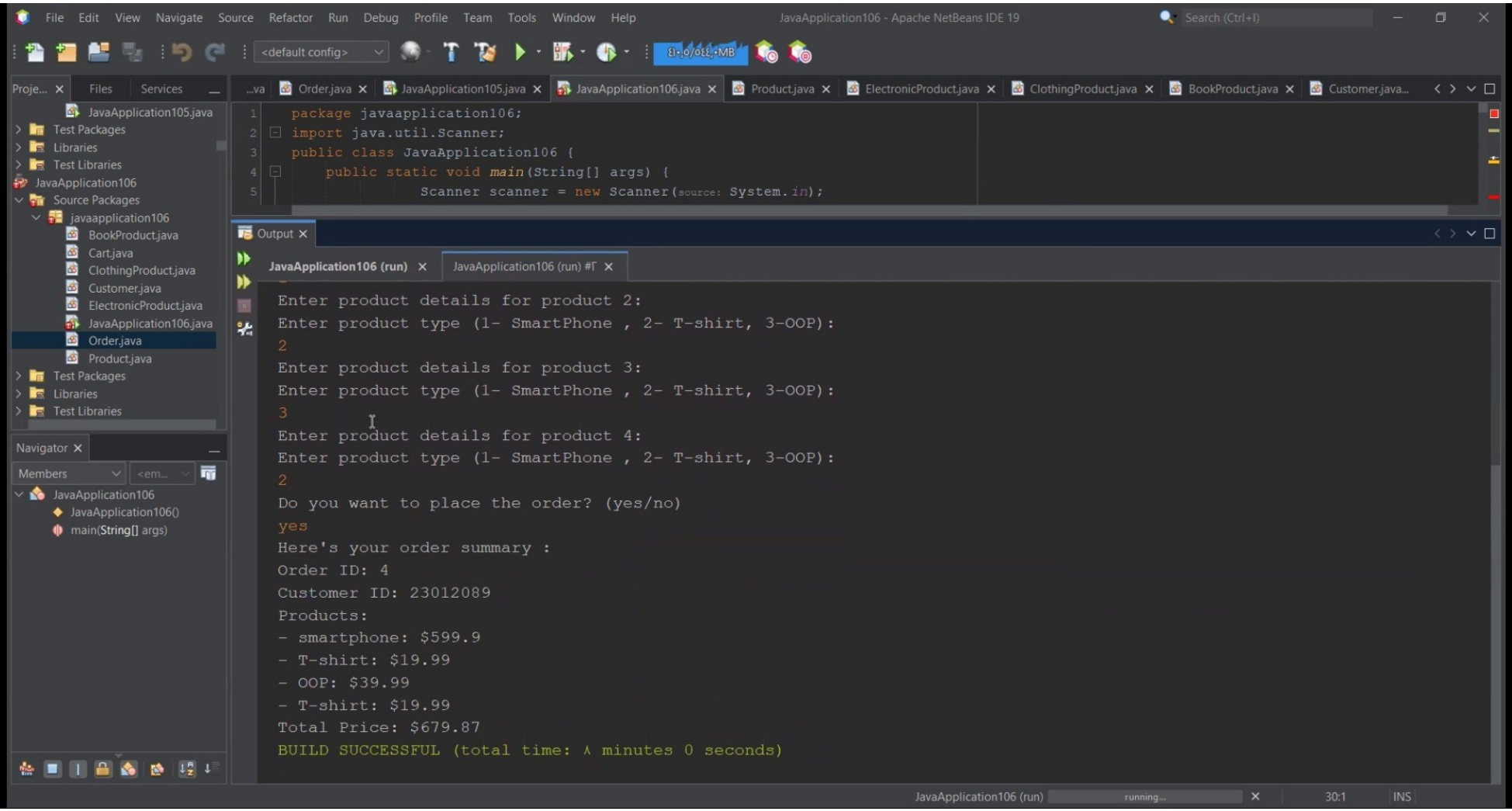
JavaApplication106()
main(String[] args)
Order.java
JavaApplication105.java
JavaApplication106.java
Product.java
ElectronicProduct.java
ClothingProduct.java
BookProduct.java
Customer.java...
1 package javaapplication106;
2 import java.util.Scanner;
3 public class JavaApplication106 {
4 public static void main(String[] args) {
5 Scanner scanner = new Scanner(source: System.in);
Output
JavaApplication106 (run)
JavaApplication106 (run) #٦
run:
Welcome to the Eccomerse System!
please enter your id :
23012089
please Enter your name:
jana wael gaber
please Enter your address:
56street
How many products yo want to add to your cart ?
4
Enter product details for product 1:
Enter product type (1- SmartPhone , 2- T-shirt, 3-OOP):
1
Enter product details for product 2:
Enter product type (1- SmartPhone , 2- T-shirt, 3-OOP):
2
Enter product details for product 3:
Enter product type (1- SmartPhone , 2- T-shirt, 3-OOP):
3
Enter product details for product 4:
Enter product type (1- SmartPhone , 2- T-shirt, 3-OOP):
2
JavaApplication106 (run) running...
30:1
INS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JavaApplication106()
main(String[] args)
Order.java
JavaApplication105.java
JavaApplication106.java
Product.java
ElectronicProduct.java
ClothingProduct.java
BookProduct.java
Customer.java...
1 package javaapplication106;
2 import java.util.Scanner;
3 public class JavaApplication106 {
4 public static void main(String[] args) {
5 Scanner scanner = new Scanner(source: System.in);
Output
JavaApplication106 (run)
JavaApplication106 (run) #1
Enter product details for product 2:
Enter product type (1- SmartPhone , 2- T-shirt, 3-OOP):
2
Enter product details for product 3:
Enter product type (1- SmartPhone , 2- T-shirt, 3-OOP):
3
Enter product details for product 4:
Enter product type (1- SmartPhone , 2- T-shirt, 3-OOP):
2
Do you want to place the order? (yes/no)
yes
Here's your order summary :
Order ID: 4
Customer ID: 23012089
Products:
- smartphone: $599.9
- T-shirt: $19.99
- OOP: $39.99
- T-shirt: $19.99
Total Price: $679.87
BUILD SUCCESSFUL (total time: 1 minutes 0 seconds)
JavaApplication106 (run) running...
30:1
INS