<default config>　　376.1/440.0MB

Start Page ×　　Output ×　　EcommerceSystem.java ×　　Product.java ×　　ElectronicProduct.java ×　　ClothingProduct.java ×　　BookProduct.java ×　　Customer.java ×　　Cart.java ×　　Order.java ×

Source　History

```java
 7  import java.util.Scanner;
 8  public class EcommerceSystem {
 9
10
11      public static void main(String[] args) {
12          Scanner input = new Scanner(System.in);
13          ElectronicProduct smartphone = new ElectronicProduct();
14          smartphone.setName("smartphone");
15          smartphone.setId(1);
16          smartphone.setPrice(599.9f);
17          smartphone.setBrand("Samsung");
18          smartphone.setWarrantyPeriod(1);
19          ClothingProduct tShirt = new ClothingProduct();
20          tShirt.setName("T-shirt");
21          tShirt.setId(2);
22          tShirt.setPrice(19.99f);
23          tShirt.setSize("Medium");
24          tShirt.setFabric("Cotton");
25
26
27          BookProduct oopBook = new BookProduct();
28          oopBook.setName("OOP");
29          oopBook.setId(3);
30          oopBook.setPrice(39.99f);
31          oopBook.setAuthor("O'Reilly");
32          oopBook.setPublisher("X Publications");
33
34
35          Customer customer = new Customer();
36          System.out.print("Enter your customer ID: ");
37          customer.setCustomerId(input.nextInt());
38          System.out.print("Enter your name: ");
39          customer.setName(input.next());
40          System.out.print("Enter your address: ");
41          customer.setAddress(input.next());
42
43
44          System.out.print("How many products do you want to order? ");
45          int numProducts = input.nextInt();
```

```java
            System.out.print("How many products do you want to order? ");
            int numProducts = input.nextInt();
            Cart cart = new Cart(customer.getCustomerId(), numProducts);
            for (int i = 0; i < numProducts; i++) {
                System.out.println("which product would you like to add \n [1]smart phone \n [2] t_shirt \n [3]OOP");
                int type = input.nextInt();
                switch (type) {
                    case 1 -> {
                        cart.addProduct(smartphone, i);
                    }
                    case 2 -> {
                        cart.addProduct(tShirt, i);
                    }
                    case 3 -> {
                        cart.addProduct(oopBook, i);
                    }
                    default -> System.out.println("Invalid product type!");
                }
            }


            System.out.print("do you want to place an order? (yes/no): ");
            String answer = input.next();
            if (answer.equalsIgnoreCase("yes")) {
                cart.placeOrder();
            }


            System.out.println("Order Information:");
            Order order = new Order(customer.getCustomerId(), 1, cart.getProducts(), (float) cart.calculatePrice());
            order.printOrderInfo();



        }

    }
```

```java
/**
 *
 * @author Mega Store
 */
public class Product {
    private int Id;
    private String name ;
    private float price ;

    public int getId() {
        return Id;
    }

    public void setId(int Id) {
        if (Id<0){this.Id=Math.abs(Id);}
        this.Id = Id;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public float getPrice() {
        return price;
    }

    public void setPrice(float price) {
        if (price<0){this.price=Math.abs(price);}
        else  this.price = price;
    }
}
}
```

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package ecommercesystem;

/**
 *
 * @author Mega Store
 */
public class ElectronicProduct extends Product{
    private String brand;
  private int warrantyPeriod;

    public String getBrand() {
        return brand;
    }

    public void setBrand(String brand) {
        this.brand = brand;
    }

    public int getWarrantyPeriod() {
        return warrantyPeriod;
    }

    public void setWarrantyPeriod(int warrantyPeriod) {
        if(warrantyPeriod<0){this.warrantyPeriod=Math.abs(warrantyPeriod);}
        else   this.warrantyPeriod = warrantyPeriod;

    }
}
```

Start Page ×   Output ×   EcommerceSystem.java ×   Product.java ×   ElectronicProduct.java ×   ClothingProduct.java ×   BookProduct.java ×   Customer.java ×   Cart.java ×   Order.java ×

Source   History

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 */
package ecommercesystem;

/**
 *
 * @author Mega Store
 */
public class ClothingProduct extends Product {
    private String size ;
    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;
    }


}
```

```java
 3      * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 4      */
 5     package ecommercesystem;
 6
 7     /**
 8      *
 9      * @author Mega Store
10      */
11     public class BookProduct  extends Product{
12         private  String author ;
13         private String publisher;
14
15         public String getAuthor() {
16             return author;
17         }
18
19         public void setAuthor(String author) {
20             this.author = author;
21         }
22
23         public String getPublisher() {
24             return publisher;
25         }
26
27         public void setPublisher(String publisher) {
28             this.publisher = publisher;
29         }
30
31     }
32
```

```java
/**
 *
 * @author Mega Store
 */
public class Customer {
    private  String name;
    private String address;
    private int customerId;

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getAddress() {
        return address;
    }

    public void setAddress(String address) {
        this.address = address;
    }

    public int getCustomerId() {
        return customerId;
    }

    public void setCustomerId(int customerId) {
        if(customerId<0){this.customerId=Math.abs(customerId);}
        else this.customerId = customerId;
    }
}
```
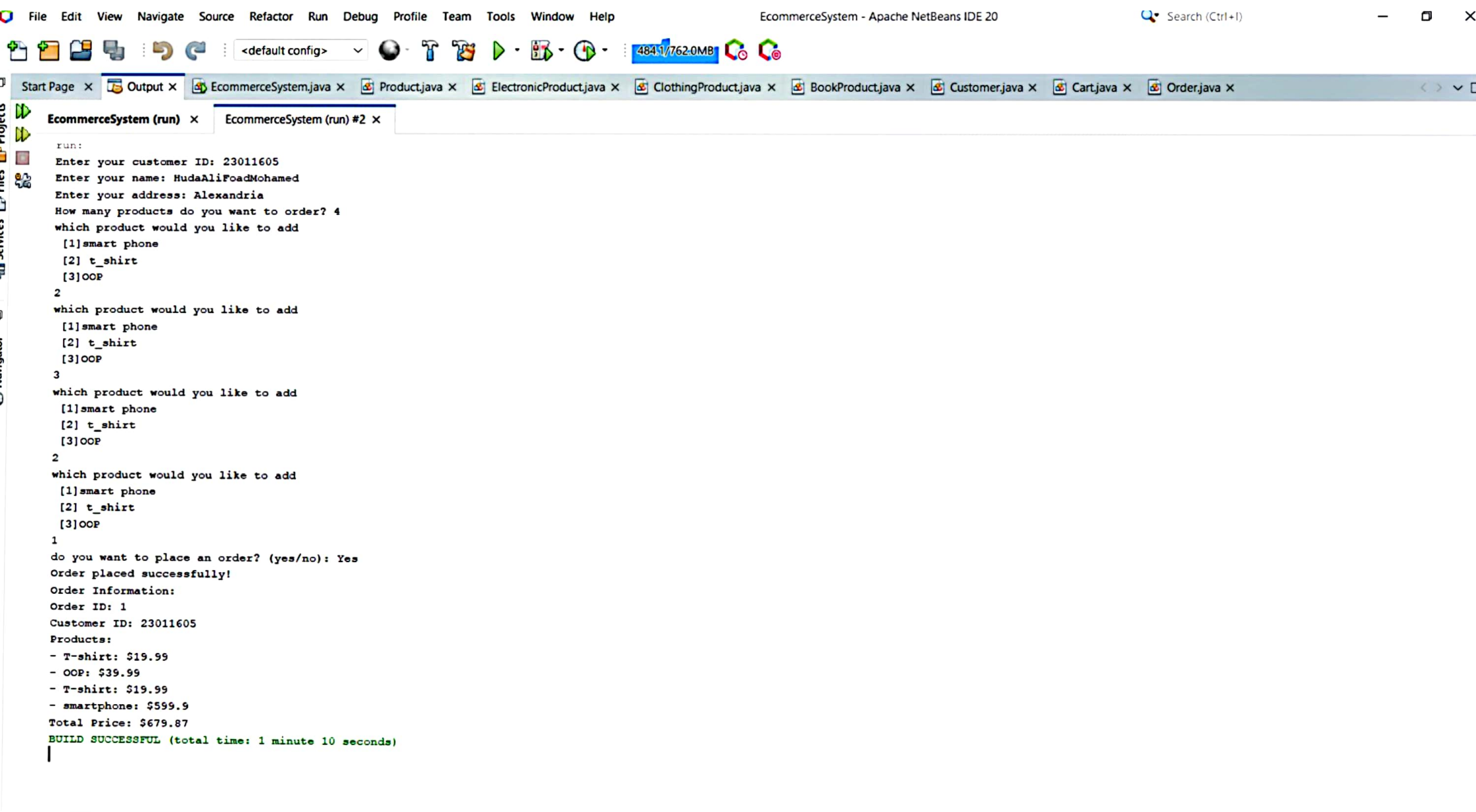
```java
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 */
package ecommercesystem;

/**
 *
 * @author Mega Store
 */
public class Cart {
    private int customerId;
    private int nProducts;
    private final Product[] products;


    public Cart(int customerId, int nProducts) {
        this.customerId = Math.abs(customerId);
        this.nProducts = Math.abs(nProducts);
        this.products = new Product[this.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) {
        if(nProducts<0) this.nProducts = Math.abs(nProducts);
        else   this.nProducts=nProducts;
    }
```

```java
40
41      public Product[] getProducts() {
42          return products;
43      }
44      public void addProduct(Product product, int index) {
45          if (index >= 0 && index < nProducts) {
46              products[index] = product;
47          } else {
48              System.out.println("Invalid index");
49          }
50      }
51
52
53      public void removeProduct(int index) {
54          if (index >= 0 && index < nProducts) {
55              products[index] = null;
56          } else {
57              System.out.println("Invalid index");
58          }
59      }
60
61
62      public double calculatePrice() {
63          double totalPrice = 0.0;
64          for (Product product : products) {
65              if (product != null) {
66                  totalPrice += product.getPrice();
67              }
68          }
69          return totalPrice;
70      }
71
72
73      public void placeOrder() {
74
75          System.out.println("Order placed successfully!");
76      }
77  }
78
```

```java
/*
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 */
package ecommercesystem;

/**
 *
 * @author Mega Store
 */
public class Order {
    private final int customerId;
    private final int orderId;
    private final Product[] products;
    private final float totalPrice;


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


    public void printOrderInfo() {
        System.out.println("Order ID: " + orderId);
        System.out.println("Customer ID: " + customerId);
        System.out.println("Products:");
        for (Product product : products) {
            System.out.println("- " + product.getName() + ": $" + product.getPrice());
        }
        System.out.println("Total Price: $" + totalPrice);
    }

}
```

EcommerceSystem (run) ✕   EcommerceSystem (run) #2 ✕

```
run:
Enter your customer ID: 23011605
Enter your name: HudaAliFoadMohamed
Enter your address: Alexandria
How many products do you want to order? 4
which product would you like to add
 [1]smart phone
 [2] t_shirt
 [3]OOP
2
which product would you like to add
 [1]smart phone
 [2] t_shirt
 [3]OOP
3
which product would you like to add
 [1]smart phone
 [2] t_shirt
 [3]OOP
2
which product would you like to add
 [1]smart phone
 [2] t_shirt
 [3]OOP
1
do you want to place an order? (yes/no): Yes
Order placed successfully!
Order Information:
Order ID: 1
Customer ID: 23011605
Products:
- T-shirt: $19.99
- OOP: $39.99
- T-shirt: $19.99
- smartphone: $599.9
Total Price: $679.87
BUILD SUCCESSFUL (total time: 1 minute 10 seconds)
```