

<default config>

Start Page X

E_commerceSystem.java X

Product.java X

ElectronicProduct.java X

ClothingProduct.java X

Source

History

```
1 package e_commercesystem;
2 public class Product {
3
4     private String name ;
5     private int product_id ;
6     private float price ;
7
8     public Product(String name, int product_id, float price) {
9         this.name = name;
10        this.product_id = product_id;
11        this.price = price;
12    }
13
14
15    public int getProduct_id() {
16        return product_id;
17    }
18
19    public void setProduct_id(int product_id) {
20
21        this.product_id = Math.abs(product_id);
22    }
23
24    public String getName() {
25        return name;
26    }
27    public void setName(String name) {
28        this.name = name;
29    }
30
31    public float getPrice() {
32        return price;
33    }
34
35    public void setPrice(float price) {
36        this.price = Math.abs(price);
37    }
38 }
```



Start Page x E-commerceSystem.java x Product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x

```

1 package e_commercesystem;
2 public class ElectronicProduct extends Product{
3
4     private String brand ;
5     private int warrantyPeriod ;
6
7     public ElectronicProduct(int warrantyPeriod, String brand, float price, String name, int product_id) {
8         super(name, product_id, price);
9         this.brand = brand;
10        this.warrantyPeriod = warrantyPeriod;
11    }
12
13
14
15
16
17    public String getBrand() {
18        return brand;
19    }
20
21    public void setBrand(String brand) {
22        this.brand = brand;
23    }
24
25    public int getWarrantyPeriod() {
26        return warrantyPeriod;
27    }
28
29    public void setWarrantyPeriod(int warrantyPeriod) {
30        this.warrantyPeriod = Math.abs(warrantyPeriod) ;
31    }
32
33
34
35
36

```

e_commercesystem.ElectronicProduct > getBrand >

<default config>

E_commerceSystem - Active JUnit 4.12.0

Start Page

E_commerceSystem.java

Product.java

ElectronicProduct.java

ClothingProduct.java

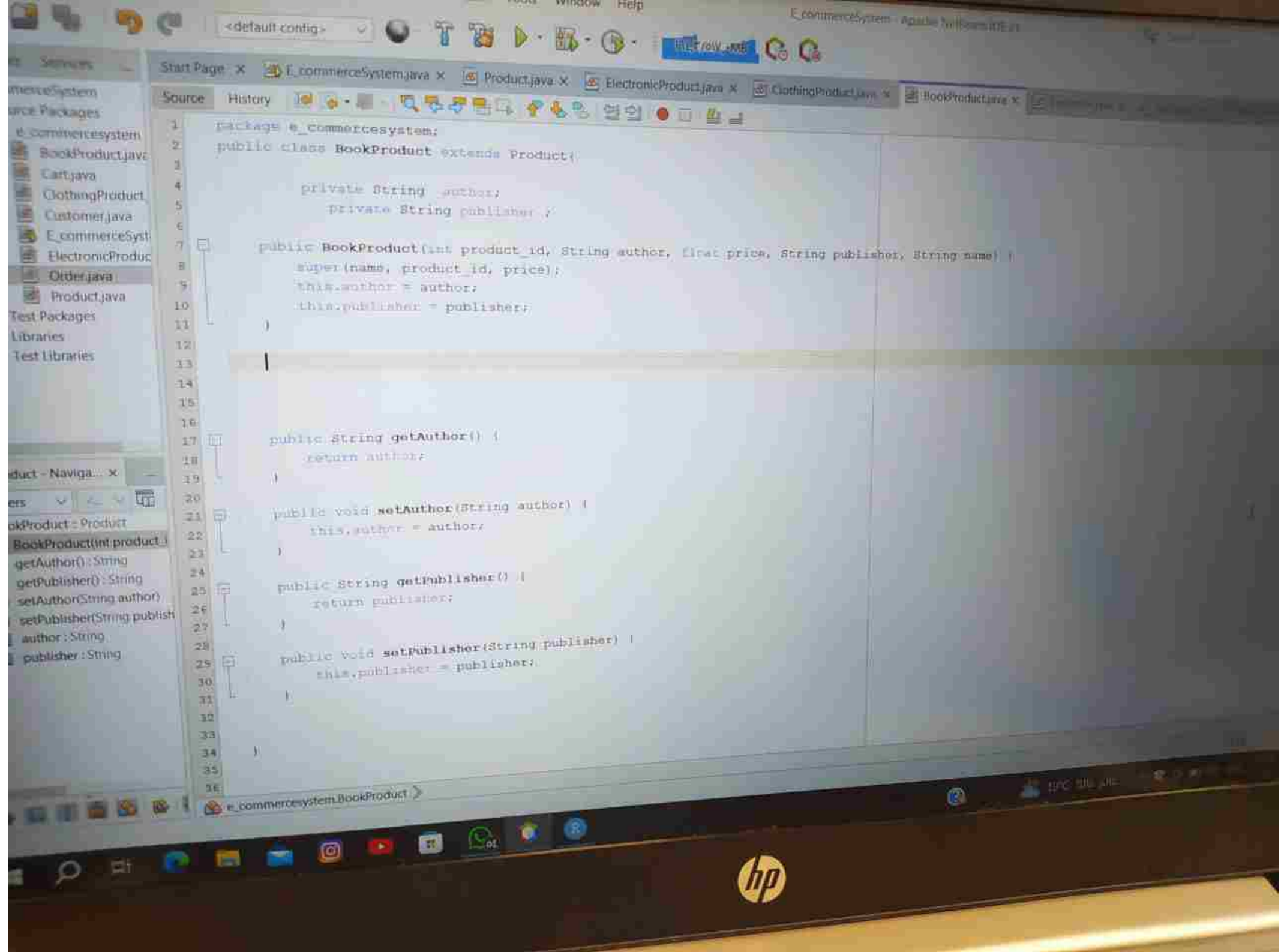
Source

History

```
1 package e_commercesystem;
2 public class ClothingProduct extends Product {
3
4     private String size;
5     private String fabric;
6
7     public ClothingProduct(int product_id, String size, float price, String fabric, String name) {
8         super(name, product_id, price);
9         this.size = size;
10        this.fabric = fabric;
11    }
12
13    public String getSize() {
14        return size;
15    }
16
17    public void setSize(String size) {
18        this.size = size;
19    }
20
21    public String getFabric() {
22        return fabric;
23    }
24
25    public void setFabric(String fabric) {
26        this.fabric = fabric;
27    }
28
29
30
31
32
33
34
35
```

e_commercesystem.ClothingProduct

ClothingProduct



Project Explorer

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- Services
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 - Source Packages
 - e_commercesystem
 - BookProduct.java
 - Cart.java
 - ClothingProduct
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 - E_commerceSyst
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 - Order.java
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 - Test Packages
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 - Test Libraries

Customer.java - Navig...

Members

- Customer
 - Customer(int customerId)
 - getAddress(): String
 - getCustomerId(): int
 - getName(): String
 - setAddress(String address)
 - setCustomerId(int customerId)
 - setName(String name)
 - address: String
 - customerId: int
 - name: String

Start Page x E_commerceSystem.java x Product.java x ElectronicProduct.java x ClothingProduct.java x

Source History

```
1 package e_commercesystem;
2 public class Customer {
3
4     private String name;
5     private String address;
6     private int customerId;
7
8     public Customer(int customerId, String name, String address) {
9         this.name = name;
10        this.address = address;
11        this.customerId = customerId;
12    }
13    public String getName() {
14        return name;
15    }
16
17    public void setName(String name) {
18        this.name = name;
19    }
20
21    public String getAddress() {
22        return address;
23    }
24
25    public void setAddress(String address) {
26        this.address = address;
27    }
28
29    public int getCustomerId() {
30        return customerId;
31    }
32
33    public void setCustomerId(int customerId) {
34        this.customerId = customerId;
35    }
36 }
```



```

package com.commercesystem;
public class Cart {
    private int customer_id ;
    private int nProduct ;
    private Product[] products ;
    public Cart(int customerId, int maxSize) {
        this.customer_id = Math.abs(customerId);
        this.nProduct = 0;
        this.products = new Product[maxSize];
    }
    public int getCustomer_id() {
        return customer_id;
    }
    public void setCustomer_id(int customer_id) {
        this.customer_id = Math.abs(customer_id);
    }
    public int getnProduct() {
        return nProduct;
    }
    public void setnProduct(int nProduct) {
        this.nProduct = Math.abs(nProduct);
    }
    public Product[] getProducts() {
        return products;
    }
    public void setProducts(Product[] products) {
        this.products = products;
    }
    public void addProduct(Product product) {
        if (nProduct < products.length) {
            products[nProduct] = product;
            nProduct++;
        } else {
            System.out.println("Cart is full. Cannot add more products.");
        }
    }
    public void removeProduct(Product product) {
        for (int i = 0; i < nProduct; i++) {
            if (products[i].equals(product)) {
                for (int j = i; j < nProduct - 1; j++) {
                    products[j] = products[j + 1];
                }
                products[nProduct - 1] = null;
                nProduct--;
                return;
            }
        }
        System.out.println("Product not found in cart.");
    }
    public double calculatePrice(){
        double total = 0;
        for(int i =0; i<getnProduct(); i++){
            total+= products[i].getPrice();
        }
        return total;
    }
    public Order placeOrder() {
        Order order = new Order(customer_id, products, nProduct, calculatePrice());
        return order;
    }
}

```

```
1 package e_commercesystem;
```

```
2 public class Order {
```

```
3     private int customer_id ;
```

```
4     private int orderId;
```

```
5     private Product [] products ;
```

```
6     private double totalPrice ;
```

```
7     public Order(int customerId, Product[] products, int nProducts, double totalPrice) {
```

```
8         this.customer_id = Math.abs(customerId);
```

```
9         this.orderId = (int) (Math.random() * 1000); // Generate a random order ID
```

```
10        this.products = new Product[nProducts];
```

```
11        System.arraycopy(products, 0, this.products, 0, nProducts);
```

```
12        this.totalPrice = totalPrice;
```

```
13    }
```

```
14    public void printOrderInfo() {
```

```
15        System.out.println("Order id: " + orderId);
```

```
16        System.out.println("Customer id: " + customer_id);
```

```
17        System.out.println("Products:");
```

```
18        for (Product product : products) {
```

```
19            System.out.println(product.getName() + " - $" + product.getPrice());
```

```
20        }
```

```
21        System.out.println("Total price: $" + totalPrice);
```

```
22    }
```

```
23 }
```

```
24 }
```

```
25 }
```

```
26 }
```

```
27 }
```

```
28 }
```

```
29 }
```

```
30 }
```

```
31 }
```

```
32 }
```

File Edit Format View Help
import java.util.Scanner;

public class E_commerceSystem {

public static void main(String[] args) {

Scanner read = new Scanner(System.in);

System.out.println("Welcome to the e-commerce system");

System.out.println("Please enter your ID: ");

int customerId = Math.abs(read.nextInt());

System.out.println("Please enter your name: ");

String name = read.next();

System.out.println("Please enter your address: ");

String address = read.next();

Customer cust = new Customer(customerId, name, address);

System.out.println("How many products would you like to add to your cart?");

int numProducts = read.nextInt();

Cart cart = new Cart(customerId, numProducts);

for (int i = 0; i < numProducts; i++) {

System.out.println("Which product would you like to add? 1- smartphone 2- T-shirt 3- OOP");

int choice = read.nextInt();

Product product;

switch (choice) {

case 1:

product = new ElectronicProduct(1, "smartphone", 599.9f, "Samsung", 1);

break;

case 2:

product = new ClothingProduct(2, "T-shirt", 19.99f, "Medium", "Cotton");

break;

case 3:

product = new BookProduct(3, "OOP", 39.99f, "O'Reilly", "X Publications");

break;

default:

System.out.println("Invalid choice. Defaulting to smartphone.");

product = new ElectronicProduct(1, "smartphone", 599.9f, "Samsung", 1);

break; }

cart.addProduct(product); }

System.out.println("Your total is \$" + cart.calculatePrice());

System.out.println("Would you like to place the order? 1=yes 2=no");

int placeOrderChoice = read.nextInt();

if (placeOrderChoice == 1) {

Order order = cart.placeOrder();

System.out.println("Here's your order summary:");

order.printOrderInfo();

} else {

System.out.println("Order not placed."); }

read.close(); }

String address = ReadNext();

Customer cust = new Customer(customerId, name, address);

e_commercesystem.E_commerceSystem

Output - E_commerceSystem (run) X

run:

Welcome to the e-commerce system

Please enter your ID:

23012038

Please enter your name:

samaa

Please enter your address:

Alexandria

How many products would you like to add to your cart?

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 is \$679.8700256347656

Would you like to place the order? 1=yes 2=no

1

Here's your order summary:

Order id: 709

Customer id: 23012038

Products:

Cotton - \$19.99

X Publications - \$39.99

Cotton - \$19.99

Samsung - \$599.9

Total price: \$679.8700256347656

BUILD SUCCESSFUL (total time: 17 seconds)

|

e_commercesystem

BookProduct.java

Cart.java

ClothingProduct

Customer.java

E-commerceSyst

ElectronicProduct

Order.java

Product.java

Test Packages

Libraries

Test Libraries

for X

ers

Order

Order(int customerId, P

printOrderInfo()

customer_id: int

orderId: int

products: Product[]

totalPrice: double