

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help EcommerceSystem - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
5 package ecommerceSystem;
6 import java.util.Scanner;
7
8 /**
9  *
10  * @author LENOVO
11  */
12 public class EcommerceSystem {
13
14     /**
15      * @param args the command line arguments
16      */
17     public static void main(String[] args) {
18         Scanner scanner = new Scanner(System.in);
19
20         ElectronicProduct electronicProduct = new ElectronicProduct(brand: "Samsung", warrantyPeriod: 1, productId: 1, name: "smartphone", (float)599.9);
21         ClothingProduct clothingProduct = new ClothingProduct(size: "Medium", fabric: "Cotton", productId: 2, name: "T-shirt", (float)19.99);
22         BookProduct bookProduct = new BookProduct(author: "O'Reilly", publisher: "X Publications", productId: 3, name: "OOP", (float)39.99);
23
24         // Create customer
25         System.out.print("Enter your customer ID: ");
26         int customerId = scanner.nextInt();
27         System.out.print("Enter your name: ");
28         String customerName = scanner.nextLine();
29         scanner.nextLine(); // Consume extra newline character
30         System.out.print("Enter your address: ");
31         String customerAddress = scanner.nextLine();
32         Customer customer = new Customer(customerId, name: customerName, address: customerAddress);
33
34         System.out.println("How many products you want to add to your cart? ");
```

E-Commerce System (run) running_ 44:1 INS Windows (CRLF)

69°F Partly cloudy Search

4:44 PM 4/16/2024

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

Source History

```
36 int itemsnum = scanner.nextInt();
37 Cart cart = new Cart(customerId , nProducts: itemsnum);
38
39 for(int i = 0; i<itemsnum; i++){
40 System.out.println(x: "Which product you would like to add? 1- Smartphone 2- T-shirt 3- OOP ");
41 int choice = scanner.nextInt();
42 switch(choice){
43     case 1 :
44         cart.addProduct(p=product:electronicProduct);
45         break;
46     case 2 :
47         cart.addProduct(p=product:clothingProduct);
48         break;
49     case 3 :
50         cart.addProduct(p=product:bookProduct);
51         break;
52     default :
53         System.out.println(x: "Unavailable option");
54 }
55 }
56
57 System.out.print("The total is $" + cart.calculatePrice() + " ");
58 System.out.println(x: "Would you like to place the order? 1- Yes 2- No");
59 int option = scanner.nextInt();
60 switch(option){
61     case 1 :
62         cart.placeOrder();
63         break;
64     case 2 :
65         System.out.println(x: "Thank you");
66         break;
67     default :
```

E-Commerce System (run) running_ 36:6 INS Windows (CRLF)

69°F Partly cloudy Search 4:44 PM 4/16/2024

EcommerceSystem - Apache NetBeans IDE 19

Search (Ctrl+I)

239.6/422.0MB

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

Source History

```
55     }
56
57     System.out.print("The total is $" + cart.calculatePrice() + " ");
58     System.out.println("\nWould you like to place the order? 1- Yes 2- No");
59     int option = scanner.nextInt();
60     switch(option){
61     case 1 :
62         cart.placeOrder();
63         break;
64     case 2 :
65         System.out.println("\nThank you");
66         break;
67     default :
68         System.out.println("\nUnavailable option");
69     }
70
71 }
72
73
74 }
75
```

E-Commerce System (run) running_ 36:6 INS Windows (CRLF)

69°F Partly cloudy

Search

4:45 PM 4/16/2024

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

Source History

```
public class Product {
    private int productId;
    private String name;
    private float price;

    Product(int productId, String name, float price) {
        this.productId = Math.abs(productId);
        this.name = name;
        this.price = Math.abs(price);
    }

    public void setProductId(int productId) {
        this.productId = productId;
    }

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

    public void setPrice(float price) {
        this.price = price;
    }

    public int getProductId() {
        return productId;
    }

    public String getName() {
        return name;
    }
}
```

E-Commerce System (run) running_ 12:28 INS Windows (CRLF)

69°F Partly cloudy Search 4:45 PM 4/16/2024

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

Source History

```
26 public void setName(String name) {
27     this.name = name;
28 }
29
30 public void setPrice(float price) {
31     this.price = price;
32 }
33
34 public int getProductId() {
35     return productId;
36 }
37
38 public String getName() {
39     return name;
40 }
41
42 public float getPrice() {
43     return price;
44 }
45
46
47
48 }
49
50
51
```

E-Commerce System (run) running_ 12:28 INS Windows (CRLF)

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

Source History

```
11 public class ElectronicProduct extends Product{
12     private String brand;
13     private int warrantyPeriod;
14
15     ElectronicProduct(String brand, int warrantyPeriod, int productId, String name, float price){
16         super(productId, name, price);
17         this.brand = brand;
18         this.warrantyPeriod = Math.abs(warrantyPeriod);
19     }
20
21     public void setBrand(String brand) {
22         this.brand = brand;
23     }
24
25     public void setWarrantyPeriod(int warrantyPeriod) {
26         this.warrantyPeriod = warrantyPeriod;
27     }
28
29     public String getBrand() {
30         return brand;
31     }
32
33     public int getWarrantyPeriod() {
34         return warrantyPeriod;
35     }
36
37
38
39
40
41 }
```

E-Commerce System (run) running_ 36:5 INS Windows (CRLF)

69°F Partly cloudy Search 4:47 PM 4/16/2024

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

Source History

```
11 public class ClothingProduct extends Product {
12     private String size;
13     private String fabric;
14
15     ClothingProduct(String size, String fabric, int productId, String name, float price){
16         super(productId, name, price);
17         this.size = size;
18         this.fabric = fabric;
19     }
20
21     public void setSize(String size) {
22         this.size = size;
23     }
24
25     public void setFabric(String fabric) {
26         this.fabric = fabric;
27     }
28
29     public String getSize() {
30         return size;
31     }
32
33     public String getFabric() {
34         return fabric;
35     }
36
37
38 }
39
```

E-Commerce System (run) running_ 36:5 INS Windows (CRLF)

69°F Partly cloudy Search

4:47 PM 4/16/2024

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

Source History

```
11 public class BookProduct extends Product {
12     private String author;
13     private String publisher;
14
15     BookProduct(String author, String publisher, int productId, String name, float price){
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 void setPublisher(String publisher) {
26         this.publisher = publisher;
27     }
28
29     public String getAuthor() {
30         return author;
31     }
32
33     public String getPublisher() {
34         return publisher;
35     }
36
37 }
38
```

E-Commerce System (run) running... 36:5 INS Windows (CRLF)

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

Source History

```
11 public class Customer {
12     private int customerId;
13     private String name;
14     private String address;
15
16     Customer(int customerId, String name, String address){
17         this.customerId = Math.abs(a: customerId);
18         this.name = name;
19         this.address = address;
20     }
21
22     public void setCustomerId(int customerId) {
23         this.customerId = customerId;
24     }
25
26     public void setName(String name) {
27         this.name = name;
28     }
29
30     public void setAddress(String address) {
31         this.address = address;
32     }
33
34     public int getCustomerId() {
35         return customerId;
36     }
37
38     public String getName() {
39         return name;
40     }
41
42     public String getAddress() {
```

E-Commerce System (run) running_ 45:5 INS Windows (CRLF)

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

Source History

```
27     this.name = name;
28 }
29
30 public void setAddress(String address) {
31     this.address = address;
32 }
33
34 public int getCustomerId() {
35     return customerId;
36 }
37
38 public String getName() {
39     return name;
40 }
41
42 public String getAddress() {
43     return address;
44 }
45
46 }
47
```

E-Commerce System (run) running_ 45:5 INS Windows (CRLF)

69°F Partly cloudy Search 4:48 PM 4/16/2024

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

Source History

```
11 public class Cart {
12     private int customerId;
13     private int nProducts;
14     private int element = 0;
15     private Product[] products;
16
17     Cart(int customerId, int nProducts) {
18         this.customerId = Math.abs(customerId);
19         this.nProducts = nProducts;
20         this.products = new Product[nProducts];
21     }
22
23     public void setCustomerId(int customerId) {
24         this.customerId = customerId;
25     }
26
27     public void setnProducts(int nProducts) {
28         this.nProducts = nProducts;
29     }
30
31     public void setElement(int element) {
32         this.element = element;
33     }
34
35     public void setProducts(Product[] products) {
36         this.products = products;
37     }
38
39     public int getCustomerId() {
40         return customerId;
41     }
42 }
```

E-Commerce System (run) running_ 70:7 INS Windows (CRLF)

69°F Partly cloudy Search 4:48 PM 4/16/2024

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

Source History

```
43 public int getnProducts() {
44     return nProducts;
45 }
46
47 public int getElement() {
48     return element;
49 }
50
51 public Product[] getProducts() {
52     return products;
53 }
54 public void addProduct(Product product) {
55     products[this.element] = product;
56     this.element++;
57 }
58
59
60 public void removeProduct(int index) {
61     if (index >= 0 && index < nProducts) {
62
63         for (int i = index; i < nProducts - 1; i++) {
64             products[i] = products[i + 1];
65         }
66         nProducts--;
67         products[nProducts] = null;
68     } else {
69         System.out.println(x: "Invalid product index!");
70     }
71 }
72
73 public float calculatePrice() {
```

E-Commerce System (run) running_ 43:32 INS Windows (CRLF)

69°F Partly cloudy Search

4:49 PM 4/16/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help EcommerceSystem - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
69      system.out.println("Invalid product index: ");
70    }
71  }
72
73  public float calculatePrice() {
74    float totalPrice = 0;
75    for(int i = 0; i < nProducts; i++){
76      totalPrice += products[i].getPrice();
77    }
78    return totalPrice;
79  }
80
81  public void placeOrder() {
82    Order order = new Order(customerId, orderId:1, products, (float)calculatePrice());
83    order.printOrderInfo();
84  }
85
86
87
88 }
89
```

E-Commerce System (run) running_ 43:32 INS Windows (CRLF)

69°F Partly cloudy Search 4:49 PM 4/16/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help EcommerceSystem - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
11 public class Order {
12     private int customerId;
13     private int orderId;
14     private Product[] products;
15     private float totalPrice;
16
17     Order(int customerId, int orderId, Product[] products, float totalPrice) {
18         this.customerId = Math.abs(a: customerId);
19         this.orderId = Math.abs(a: orderId);
20         this.products = products;
21         this.totalPrice = Math.abs(a: totalPrice);
22     }
23
24     public void setCustomerId(int customerId) {
25         this.customerId = customerId;
26     }
27
28     public void setOrderId(int orderId) {
29         this.orderId = orderId;
30     }
31
32     public void setProducts(Product[] products) {
33         this.products = products;
34     }
35
36     public void setTotalPrice(float totalPrice) {
37         this.totalPrice = totalPrice;
38     }
39
40     public int getCustomerId() {
41         return customerId;
42     }
43 }
```

E-Commerce System (run) running_ 11:21 INS Windows (CRLF)

69°F Partly cloudy Search 4:49 PM 4/16/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help EcommerceSystem - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
44 public int getOrderId() {
45     return orderId;
46 }
47
48 public Product[] getProducts() {
49     return products;
50 }
51
52 public float getTotalPrice() {
53     return totalPrice;
54 }
55
56 public void printOrderInfo() {
57     System.out.println("Here's your order's summary:");
58     System.out.println("Order ID: " + orderId);
59     System.out.println("Customer ID: " + customerId);
60     System.out.println("Products: ");
61     for(int i = 0 ; i< products.length ; i++){
62         System.out.println(products[i].getName() + " - " + products[i].getPrice());
63     }
64     System.out.println("Total price: $" + totalPrice);
65 }
66 }
67
```

E-Commerce System (run) running_ 11:21 INS Windows (CRLF)

69°F Partly cloudy Search

4:50 PM 4/16/2024

Output ×



E-Commerce System (run) ×

EcommerceSystem (run) ×



run:

Enter your customer ID: 23012095

Enter your name: Malak Alaa Abdelhamid

Enter your address: Louran

How many products you want to add to your cart?

4

Which product you would like to add? 1- Smartphone 2- T-shirt 3- OOP

2

E-Commerce System (run)

Output X



E-Commerce System (run) X

EcommerceSystem (run) X

Which product you would like to add? 1- Smartphone 2- T-shirt 3- OOP

2

Which product you would like to add? 1- Smartphone 2- T-shirt 3- OOP

3

Which product you would like to add? 1- Smartphone 2- T-shirt 3- OOP

2

Which product you would like to add? 1- Smartphone 2- T-shirt 3- OOP

1

Output x



E-Commerce System (run) x

EcommerceSystem (run) x



1

The total is \$679.87 Would you like to place the order? 1- Yes 2- No

1

Here's your order's summary:

Order ID: 1

Customer ID: 23012095

Products:

T-shirt - 19.99

Output x



E-Commerce System (run) x

EcommerceSystem (run) x



PRODUCTS:

T-shirt - 19.99

OOP - 39.99



T-shirt - 19.99

smartphone - 599.9

Total price: 5679.87



BUILD SUCCESSFUL (total time: 26 seconds)