

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
11 public class BookProduct extends Product {
12
13     private String author;
14     private String publisher;
15
16     public BookProduct() {
17     }
18
19     public BookProduct(int productId, String name, double price, String author, String publisher) {
20         super(productId, name, price);
21         this.author = author;
22         this.publisher = publisher;
23     }
24
25     public void setAuthor(String author) {
26         this.author = author;
27     }
28
29     public void setPublisher(String publisher) {
30         this.publisher = publisher;
31     }
32
33     public String getAuthor() {
34         return author;
35     }
36
37     public String getPublisher() {
38         return publisher;
39     }
40
41 }
```

test1.BookProduct publisher

14:15 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
10  */
11  public class Cart {
12
13      private int customerId;
14      private int nproducts;
15      private Product[] products;
16      private int productcount;
17
18      public Cart() {
19      }
20
21      public Cart(int nProducts, int customerId) {
22          this.customerId = Math.abs(customerId);
23          this.nproducts = Math.abs(nProducts);
24          this.products = new Product[this.nproducts];
25          int productcount = 0;
26      }
27
28      public void setCustomerId(int customerId) {
29          if (customerId < 0) {
30              this.customerId = Math.abs(customerId);
31          } else {
32              this.customerId = customerId;
33          }
34      }
35
36      public void setNproducts(int nproducts) {
37          if (nproducts < 0) {
38              this.nproducts = Math.abs(nproducts);
39          } else {
40              this.nproducts = nproducts;
```

test1.Cart

16:1 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
41 }
42 this.products = new Product[this.nproducts];
43 }
44
45 public void setProducts(Product[] products) {
46     if (products == null || products.length != this.nproducts) {
47         System.out.println("Invalid products array");
48     }
49     this.products = products;
50 }
51
52 public int getCustomerId() {
53     return customerId;
54 }
55
56 public int getNproducts() {
57     return nproducts;
58 }
59
60 public Product[] getProducts() {
61     return products;
62 }
63
64 public void addProductById(int productId, Product[] inventory) {
65     if (productcount >= nproducts) {
66         System.out.println("Cart is full. Cannot add more products.");
67         return;
68     }
69
70     for (Product product : inventory) {
71         if (product.getProductId() == productId) {
72             products[productcount++] = product; // Finally productcount > nproducts is prevent
```

test1.Cart

16:1 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
71     if (product.getProductid() == productId) {
72         products[productcount++] = product; // finally productcount=2 by pre increment
73         return;
74     }
75
76 }
77 System.out.println("Product with ID " + productId + " not found in inventory."); // if he enter id gratter than 3
78 System.out.println("Try another id \n");
79
80 }
81
82 public void removeProduct(int index) {
83     if (index >= 0 && index < nproducts) {
84         products[index - 1] = null;
85     } else {
86         System.out.println("Invalid index.");
87     }
88 }
89
90 public double calculatePrice() {
91     double totalprice = 0.0;
92     for (int i = 0; i < products.length; i++) {
93         if (products[i] != null) {
94             totalprice += products[i].getPrice();
95         }
96     }
97     return totalprice;
98 }
99 }
100
101 public void placeOrder(int x) {
```

test1.Cart

16:1 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
93     if (products[i] != null) {
94         totalprice += products[i].getPrice();
95     }
96 }
97 return totalprice;
98
99 }
100
101 public void placeOrder(int x) {
102     if (x == 1) {
103         System.out.println("Order placed successfully for customer: " + customerId);
104     } else if (x == 2) {
105         System.out.println("Order canceled");
106     } else {
107         System.out.println("invalid choice for placed");
108     }
109 }
110
111 }
112 }
113
```

test1.Cart

16:1 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
11 public class ClothingProduct extends Product {
12
13     private String size;
14     private String fabric;
15
16     public ClothingProduct() {
17     }
18
19     public ClothingProduct(int productId, String name, double price, String size, String fabric) {
20         super(productId, name, price);
21         this.size = size;
22         this.fabric = fabric;
23     }
24
25     public void setSize(String size) {
26         this.size = size;
27     }
28
29     public void setFabric(String fabric) {
30         this.fabric = fabric;
31     }
32
33     public String getSize() {
34         return size;
35     }
36
37     public String getFabric() {
38         return fabric;
39     }
40 }
```

test1.ClothingProduct > getSize >

33:30 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Test1 - Apache NetBeans IDE 21

Search (Ctrl+I)

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

Source History

```
10 //
11 public class Customer {
12
13     private int customerId;
14     private String name;
15     private String address;
16
17     public Customer() {
18     }
19
20     public Customer(int customerId, String name, String address) {
21         this.customerId = Math.abs(customerId);
22         this.name = name;
23         this.address = address;
24     }
25
26     public void setCustomerId(int customerId) {
27         if (customerId < 0) {
28             this.customerId = Math.abs(customerId); //23011634
29         } else {
30             this.customerId = customerId;
31         }
32     }
33
34     public void setName(String name) {
35         this.name = name; //Youssef Hussein Sophy Elbhraweiy
36     }
37
38     public void setAddress(String address) {
39         this.address = address;
40     }
41 }
```

test1.Customer > address >

15:5 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
34 public void setName(String name) {  
35     this.name = name; //Youssef Hussein Sophy Elbhraweiy  
36 }  
37  
38 public void setAddress(String address) {  
39     this.address = address;  
40 }  
41  
42 public int getCustomerId() {  
43     return customerId;  
44 }  
45  
46 public String getName() {  
47     return name;  
48 }  
49  
50 public String getAddress() {  
51     return address;  
52 }  
53  
54 }  
55
```

test1.Customer > address >

15:5 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
13 public class EcommerceSystem {
14
15     /**
16      * @param args the command line arguments
17      */
18     public static void main(String[] args) {
19         Scanner in = new Scanner(System.in);
20
21         System.out.println("Welcome to E-Commerce System");
22
23         ElectronicProduct e = new ElectronicProduct(1, "Smartphone", (float) 599.9, "sam", 2);
24         ClothingProduct sh = new ClothingProduct(2, "T-Shirt", (float) 19.99, "medium", "Cotton");
25         BookProduct bo = new BookProduct(3, "OOP", (float) 39.99, "O,Railly", "X publication");
26         Product[] inventory = new Product[]{e, sh, bo}; // Quick array initialization
27
28         System.out.println("please enter your name:");
29         String name = in.nextLine();
30         System.out.println(".....");
31         System.out.println("please enter your address:");
32         String add = in.nextLine();
33         System.out.println(".....");
34         System.out.println("please enter your id:");
35         int id = in.nextInt();
36         System.out.println(".....");
37
38         Customer cust = new Customer(id, name, add);
39
40         System.out.println("How many products you want to order");
41         int num = in.nextInt();
42
43         System.out.println();
```

test1.EcommerceSystem

17:8 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
44
45     Cart cart = new Cart(num, id);
46
47     for (int i = 0; i < num; i++) {
48         System.out.println("Wich product would you like to add: ");
49         System.out.println("Available Products:");
50         for (Product product : inventory) { // to show products detail
51             System.out.println("ID: " + product.getProductId() + " - " + product.getName() + " ($" + product.getPrice() + ")");
52         }
53
54         System.out.print("Enter the product ID to add to the cart or (enter -1 to stop): ");
55         int productId = in.nextInt();
56         if (productId == -1) {
57             break;
58         }
59         if (productId != -1 && productId != 1 && productId != 2 && productId != 3) {
60             i--;
61         }
62
63         // Add product to the cart by its ID
64         cart.addProductById(productId, inventory);
65     }
66     int x;
67     System.out.println("your total price is: " + cart.calculatePrice() + ". would you like place the order? 1-Yes 2-No");
68     x = in.nextInt();
69     cart.placeOrder(x);
70     System.out.println("=====");
71
72     System.out.println();
73
74     if (x == 1) {
75         System.out.println("Here's your order's summary:");
76     }
77 }
```

test1.EcommerceSystem

17:8 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
75 System.out.println("Here`s your order`s summary");
76 Order order = new Order(cust.getCustomerId(), 1, cart.getProducts(), cart.calculatePrice());
77 order.printOrderinfo();
78 } else if (x == 2) { //need some edit
79 System.out.println("you want to remove order and continue shopping 1-yes 2-no");
80 int r = in.nextInt();
81
82 if (r == 1) {
83 System.out.println("Enter id for product which you want to remove");
84 int rm = in.nextInt();
85 cart.removeProduct(rm);
86
87 System.out.println("=====");
88 System.out.println("Now your order`s summary is: ");
89 Order order = new Order(cust.getCustomerId(), 1, cart.getProducts(), cart.calculatePrice());
90 order.printOrderinfo();
91
92
93 } else if (r == 2) {
94 System.out.println("Thank you for shopping");
95 } else {
96 System.out.println("invalid choice");
97 }
98 }
99
100 }
101
102
103 //hints for continue
104 //name in first name only done
105 //array make for loop not stop done
```

test1.EcommerceSystem

17:8 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
9  * @author Mega Store
10 */
11 public class ElectronicProduct extends Product {
12
13     private String brand;
14     private int warrantyPeriod;
15
16     public ElectronicProduct() {
17     }
18
19     public ElectronicProduct(int productId, String name, double price, String brand, int warrantyPeriod) {
20         super(productId, name, price);
21         this.brand = brand;
22         this.warrantyPeriod = Math.abs(warrantyPeriod);
23     }
24
25     public void setBrand(String brand) {
26         this.brand = brand;
27     }
28
29     public void setWarrantyPeriod(int warrantyPeriod) {
30         if (warrantyPeriod < 0) {
31             this.warrantyPeriod = Math.abs(warrantyPeriod);
32         } else {
33             this.warrantyPeriod = warrantyPeriod;
34         }
35     }
36
37     public String getBrand() {
38         return brand;
39     }
}
```

test1.ElectronicProduct > warrantyPeriod >

14:18 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
10  */
11  public class Order {
12
13      private int customerId;
14      private int orderId;
15      private Product[] products;
16      private float totalPrice;
17
18      public Order() {
19      }
20
21      public Order(int customerId, int orderId, Product[] products, double totalPrice) {
22          this.customerId = Math.abs(customerId);
23          this.orderId = Math.abs(orderId);
24          this.products = products;
25          this.totalPrice = (float) Math.abs(totalPrice);
26      }
27
28      public void setCustomerId(int customerId) {
29          this.customerId = Math.abs(customerId);
30      }
31
32      public void setOrderId(int orderId) {
33          this.orderId = Math.abs(orderId);
34      }
35
36      public void setProducts(Product[] products) {
37          this.products = products;
38      }
39
40      public void setTotalPrice(float totalPrice) {
```

test1.Order > products >

15:31 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
40 public void setTotalPrice(float totalPrice) {
41     this.totalPrice = Math.abs(totalPrice);
42 }
43
44 public double calculateTotalPrice() {
45     double total = 0.0;
46     for (int i = 0; i < products.length; i++) {
47         if (products[i] != null) {
48             total += products[i].getPrice();
49         }
50     }
51     return total;
52 }
53
54 public void printOrderinfo() {
55     System.out.println("customerId: " + customerId);
56     System.out.println("orderId: " + orderId);
57     System.out.println("products:");
58     for (int i = 0; i < products.length; i++) {
59         if (products[i] != null) {
60             System.out.println("productName: " + products[i].getName() + "\nproductprice: " + products[i].getPrice());
61         }
62     }
63     System.out.println("=====");
64     System.out.println("totalPrice is: " + totalPrice);
65 }
66 }
67
68 }
69
```

test1.Order > products >

15:31 INS Windows (CRLF)


```
Output - Test1 (run) - Editor
Output - Test1 (run) X

run:
Welcome to E-Commerce System
please enter your name:
youssef hussein sophy hassan
.....
please enter your address:
25 address
.....
please enter your id:
23011634
.....
How many products you want to order
4

Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 2
Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 3
Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 2
Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 1
your total price is: 679.8700256347656. would you like place the order? 1-Yes 2-No
1
Order placed successfully for customer: 23011634
=====

Here`s your order`s summary
customerId: 23011634
```

```
Output - Test1 (run) - Editor
Output - Test1 (run) X

run:
Welcome to E-Commerce System
please enter your name:
youssef hussein sophy hassan
.....
please enter your address:
25 address
.....
please enter your id:
23011634
.....
How many products you want to order
4

Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 1
Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 2
Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 3
Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 3
your total price is: 699.8700275421143. would you like place the order? 1-Yes 2-No
2
Order canceled
=====

you want to remove order and continue shopping 1=yes 2=no
1
```

```
Output - Test1 (run) - Editor
Output - Test1 (run) x

Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 2
Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 3
Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 2
Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 1
your total price is: 679.8700256347656. would you like place the order? 1-Yes 2-No
1
Order placed successfully for customer: 23011634
=====

Here's your order's summary
customerId: 23011634
orderId: 1
products:
productName: T-Shirt
productprice: 19.99
productName: OOP
productprice: 39.99
productName: T-Shirt
productprice: 19.99
productName: Smartphone
productprice: 599.9
=====
totalPrice is: 679.87
BUILD SUCCESSFUL (total time: 59 seconds)
|
```

Output - Test1 (run) - Editor

Output - Test1 (run) X

```
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 1
Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 2
Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 3
Wich product would you like to add:
Available Products:
ID: 1 - Smartphone ($599.9)
ID: 2 - T-Shirt ($19.99)
ID: 3 - OOP ($39.99)
Enter the product ID to add to the cart or (enter -1 to stop): 3
your total price is: 699.8700275421143. would you like place the order? 1-Yes 2-No
2
Order canceled
=====

you want to remove order and continue shopping 1-yes 2-no
1
Enter id for product which you want to remove
1
=====
Now your order`s summary is:
customerId: 23011634
orderId: 1
products:
productName: T-Shirt
productprice: 19.99
productName: OOP
productprice: 39.99
productName: OOP
productprice: 39.99
=====
totalPrice is: 99.97
BUILD SUCCESSFUL (total time: 46 seconds)
```

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Test1 - Apache NetBeans IDE 21

Search (Ctrl+I)

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

Source History

```
10 public class Product {
11
12
13     protected int productId;
14     protected String name;
15     protected float price;
16
17     public Product() {
18     }
19
20
21     public Product(int productId, String name, double price) {
22         this.productId = Math.abs(productId);
23         this.name = name;
24         this.price = (float) Math.abs(price);
25     }
26
27     public void setProductId(int productId) {
28         if (productId < 0) {
29             this.productId = Math.abs(productId);
30         } else {
31             this.productId = productId;
32         }
33     }
34
35     public void setName(String name) {
36         this.name = name;
37     }
38
39     public void setPrice(float price) {
40         if (price < 0) {
41             this.price = Math.abs(price);
42         } else {
43             this.price = price;
44         }
45     }
46 }
```

test1.Product

11:21 INS

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Test1 - Apache NetBeans IDE 21 Search (Ctrl+I)

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

Source History

```
34
35 public void setName(String name) {
36     this.name = name;
37 }
38
39 public void setPrice(float price) {
40     if (price < 0) {
41         this.price = Math.abs(price);
42     } else {
43         this.price = price;
44     }
45 }
46
47
48 public int getProductId() {
49     return productId;
50 }
51
52 public String getName() {
53     return name;
54 }
55
56 public float getPrice() {
57     return price;
58 }
59
60 }
61
```

test1.Product

11:21 INS Windows (CRLF)