

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
1 public class Product {
2
3
4     protected int productId;
5     protected String name;
6     protected double price;
7
8     public Product() {
9     }
10
11    public Product(int productId, String name, double price) {
12        this.productId = Math.abs(productId);
13        this.name = name;
14        this.price = Math.abs(price);
15    }
16
17    public void setProductId(int productId) {
18        if (productId >= 0) {
19            this.productId = productId;
20        } else {
21            this.productId = Math.abs(productId);
22        }
23    }
24
25
26
27    public void setName(String name) {
28        this.name = name;
29    }
30
31    public void setPrice(double price) {
32        if (price >= 0) {
33            this.price = price;
34        } else {
35            this.price = Math.abs(price);
36        }
37    }
38 }
```

Adobe Acrobat

project1 (run) running... 2:1 INS Windows (CRLF)

25°C مشمس غاليا

Search

6:43 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
17
18 public void setProductId(int productId) {
19     if (productId >= 0) {
20         this.productId = productId;
21     } else {
22         this.productId = Math.abs(productId);
23     }
24 }
25
26
27 public void setName(String name) {
28     this.name = name;
29 }
30
31 public void setPrice(double price) {
32     if (price >= 0) {
33         this.price = price;
34     } else {
35         this.price = Math.abs(price);
36     }
37 }
38
39
40 public int getProductId() {
41     return productId;
42 }
43
44 public String getName() {
45     return name;
46 }
47
48 public double getPrice() {
49     return price;
50 }
51
52 }
53
```

Notifications Output project1 (run) running... 2:1 INS Windows (CRLF)

25°C مشمس غاليا 6:44 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
1 public class ElectronicProduct extends Product {
2
3     private String brand;
4     private int warrantyPeriod;
5
6     public ElectronicProduct() {
7     }
8
9     public ElectronicProduct(String brand, int warrantyPeriod, int productId, String name, double price) {
10         super(productId, name, price);
11         this.brand = brand;
12         this.warrantyPeriod = warrantyPeriod;
13     }
14
15
16
17
18
19     public void setBrand(String brand) {
20         this.brand = brand;
21     }
22
23     public void setWarrantyPeriod(int warrantyPeriod) {
24         if (warrantyPeriod >= 0) {
25             this.warrantyPeriod = warrantyPeriod;
26         } else {
27             this.warrantyPeriod = Math.abs(warrantyPeriod);
28         }
29     }
30
31     public String getBrand() {
32         return brand;
33     }
34
35     public int getWarrantyPeriod() {
36         return warrantyPeriod;
37     }
38 }
```

Notifications Output project1 (run) running... 40:5 INS Windows (CRLF)

SAR/EGP %0,40-

Search

6:49 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
18
19 public void setBrand(String brand) {
20     this.brand = brand;
21 }
22
23 public void setWarrantyPeriod(int warrantyPeriod) {
24     if (warrantyPeriod >= 0) {
25         this.warrantyPeriod = warrantyPeriod;
26     } else {
27         this.warrantyPeriod = Math.abs(a: warrantyPeriod);
28     }
29 }
30
31 public String getBrand() {
32     return brand;
33 }
34
35 public int getWarrantyPeriod() {
36     return warrantyPeriod;
37 }
38
39 }
40
41
42
```

Notifications Output project1 (run) running... 42:1 INS Windows (CRLF)

SAR/EGP %0,40-

Search

6:49 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
1
2 public class ClothingProduct extends Product {
3
4     private String size, fabric;
5
6     public ClothingProduct() {
7     }
8
9
10    public ClothingProduct(String size, String fabric, int productId, String name, double price) {
11        super(productId, name, price);
12        this.size = size;
13        this.fabric = fabric;
14    }
15
16
17
18
19    public void setSize(String size) {
20        this.size = size;
21    }
22
23    public void setFabric(String fabric) {
24        this.fabric = fabric;
25    }
26
27    public String getSize() {
28        return size;
29    }
30
31    public String getFabric() {
32        return fabric;
33    }
34
35 }
36
```

Notifications Output project1 (run) running... 1:1 INS Windows (CRLF)

24°C عالم جزيتا

Search

6:49 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
1
2 public class BookProduct extends Product {
3
4     private String author, publisher;
5
6     public BookProduct() {
7     }
8
9
10
11    public BookProduct(String author, String publisher, int productId, String name, double price) {
12        super(productId, name, price);
13        this.author = author;
14        this.publisher = publisher;
15    }
16
17
18    public void setAuthor(String author) {
19        this.author = author;
20    }
21
22    public void setPublisher(String publisher) {
23        this.publisher = publisher;
24    }
25
26    public String getAuthor() {
27        return author;
28    }
29
30    public String getPublisher() {
31        return publisher;
32    }
33
34 }
35
```

Notifications Output project1 (run) running... 1:1 INS Windows (CRLF)

24°C عالم جزيتا Search 6:50 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
1
2 public class Customer {
3     private int customerId;
4     private String name, address;
5     public Customer() {
6     }
7     public Customer(int customerId, String name, String address) {
8         this.customerId = Math.abs(a: customerId);
9         this.name = name;
10        this.address = address;
11    }
12    public void setCustomerId(int customerId) {
13        if (customerId >= 0) {
14            this.customerId = customerId;
15        } else {
16            this.customerId = Math.abs(a: customerId);
17        }
18    }
19    public void setName(String name) {
20        this.name = name;
21    }
22    public void setAddress(String address) {
23        this.address = address;
24    }
25    public int getCustomerId() {
26        return customerId;
27    }
28    public String getName() {
29        return name;
30    }
31    public String getAddress() {
32        return address;
33    }
34 }
35
```

Notifications Output project1 (run) running... 33:6 INS Windows (CRLF)

24°C ارتفاع درجات الحرارة

Search

6:51 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
1 public class Cart {
2     private int customerId, nproducts;
3     private Product[] prod;
4
5     public void setCustomerId(int customerId) {
6         if (customerId >= 0) {
7             this.customerId = customerId;
8         } else {
9             this.customerId = Math.abs(a: customerId);
10        }
11    }
12
13    public void setNproducts(int nproducts) {
14        if (nproducts >= 0) {
15            this.nproducts = nproducts;
16        } else {
17            this.nproducts = Math.abs(a: nproducts);
18        }
19    }
20
21    public void setProd(Product[] prod) {
22        this.prod = new Product[this.nproducts];
23    }
24
25    public int getCustomerId() {
26        return customerId;
27    }
28
29    public int getNproducts() {
30        return nproducts;
31    }
32
33    public Product[] getProd() {
34        return prod;
35    }
36
37    public void addProduct(Product obj, int i) {
38        prod[i] = obj;
39    }
40
41    public double calculatePrice() {
42        double totalprice = 0;
43        for (Product i : prod) {
44            if (i != null) {

```

Notifications Output project1 (run) running... 72:6 INS Windows (CRLF)

24°C عالم جزيتا Search 6:53 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
37     if (i != null) {
38         totalprice += i.getPrice();
39     }
40 }
41 return totalprice;
42 }
43 public void placeorder(int ch1) {
44     Order o = new Order(customerId, orderId: 1, totalprice: calculatePrice(), prod);
45     switch (ch1) {
46         case 1:
47             System.out.println(x: "Here's your order's summary:");
48             o.printOrderInfo();
49             break;
50         case 2:
51             System.out.println(x: " thanks for visiting .visit us again,we are waiting whith bated breth");
52             break;
53         default:
54             System.out.println(x: "Wrong Choice");
55     }}
56 public void addProduct(Product pro) {
57     Product[] arr = new Product[getNproducts() + 1];
58     for (int i = 0; i < nproducts; i++) {
59         arr[i] = prod[i];
60     }
61     arr[getNproducts()] = pro;
62     prod = arr;
63     nproducts++;
64 }
65 public void removeProduct(int re) {
66     for (int i = 0; i < nproducts; i++) {
67         if (i == (re - 1)) {
68             prod[i] = null;
69             System.out.println(x: "product has been removed successfully.");
70         }
71     }
72 }
73 }
```

Notifications Output

project1 (run) running... 72:6 INS Windows (CRLF)

24°C عالم جزيتا

Search

6:54 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
1 public class Order {
2
3
4     private int customerId, orderId;
5     private double totalprice;
6     private Product[] prod;
7
8     public Order() {
9     }
10
11    public Order(int customerId, int orderId, double totalprice, Product[] prod) {
12        this.customerId = customerId;
13        this.orderId = orderId;
14        this.totalprice = totalprice;
15        this.prod = prod;
16    }
17
18    public void printOrderInfo() {
19        System.out.println("order ID : " + orderId);
20        System.out.println("customer ID : " + customerId);
21        System.out.println(x: "products: ");
22        int c = 1;
23
24        for (Product i : prod) {
25            if(i!=null){System.out.println(c+"(" + i.name + " - " + i.price + "$)");
26                c++;
27            }
28        }
29        System.out.println("Total price: " + totalprice + "$");
30    }
31
32 }
33
```

Notifications Output project1 (run) running... 28:10 INS Windows (CRLF)

24°C عالم جزيتا 6:54 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
1
2 import java.util.Scanner;
3
4 public class EcommerceSystem {
5
6     public static void main(String[] args) {
7         Scanner input = new Scanner(System.in);
8         ElectronicProduct e = new ElectronicProduct(brand: "Samsung", warrantyPeriod: 1, productId: 1, name: "smartphone", price: 599.99);
9
10        ClothingProduct c = new ClothingProduct(size: "Medium", fabric: "Cotton", productId: 2, name: "T-shirt", price: 19.99);
11
12        BookProduct b = new BookProduct(author: "O'Reilly", publisher: "X Publications", productId: 3, name: "OOP", price: 39.99);
13        Customer cust = new Customer(customerId: 23011079, name: "Zeyad Yasser Mahrous Al_Amrawy ", address: "Alexandria");
14        Cart cart = new Cart();
15        System.out.println(x: "Welcome to the E-Commerce System!");
16        System.out.println("Please enter your ID: " + cust.getCustomerId());
17        System.out.println("please enter your name: " + cust.getName());
18        System.out.println("please enter your address: " + cust.getAddress());
19        System.out.println(x: "How many products you want to add to your cart ?");
20        int num = input.nextInt();
21        cart.setNproducts(nproducts: num);
22        cart.setCustomerId(customerId: cust.getCustomerId());
23        Product[] arr = new Product[cart.getNproducts()];
24        cart.setProd(prod: arr);
25        for (int i = 0; i < cart.getNproducts(); i++) {
26            System.out.println(x: "which product would you like to add ?");
27            System.out.println("1- " + e.getName());
28            System.out.println("2- " + c.getName());
29            System.out.println("3- " + b.getName());
30            int ch0 = input.nextInt();
31            switch (ch0) {
32                case 1:
33                    cart.getProd()[i] = e;
34                    break;
35                case 2:
36                    cart.getProd()[i] = c;
37                    break;
```

Notifications Output project1 (run) running... 1:1 INS Windows (CRLF)

24°C عالم جزينا Search 6:54 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
36         cart.getProd()[i] = c;
37         break;
38     case 3:
39         cart.getProd()[i] = b;
40         break;
41     default:
42         System.out.println(x: "invalid choice \n please enter a from 1 to 3");
43         i--;
44         break;
45     }
46     System.out.println("your Total is $" + cart.calculatePrice());
47 }System.out.println(x: "would you like to place the order ?");
48 System.out.println(x: "1-Yes\t2-No");
49 int ch1= input.nextInt();
50 cart.placeorder(ch1);
51
52 //     System.out.println("Do you want to remove any product?\n1- Yes  2- No");
53 //     int remo = input.nextInt();
54 //     System.out.println("_____");
55 //
56 //     switch (remo) {
57 //     case 1:
58 //         System.out.println("which product number do you want to remove");
59 //         int rem = input.nextInt();
60 //         System.out.println("_____");
61 //
62 //         cart.removeProduct(rem);
63 //         if (rem <= cart.getNproducts() && rem > 0) {
64 //             System.out.println("This is your order after removing:");
65 //             cart.placeorder(ch1);
66 //             break;
67 //         } else {
68 //             System.out.println("Invalid number of product");
69 //
70 //         }
71 //     case 2:
72 //         System.out.println("Here's your order's summary:");
```

Notifications Output project1 (run) running... 1:1 INS Windows (CRLF)

24°C عالم جزيتا Search 6:55 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
72 //      System.out.println("Here's your order's summary:");
73 //
74 //      cart.placeorder(ch1);
75 //      break;
76 //      default:
77 //      System.out.println("Wrong choise");
78 //
79 //  }
80 //  System.out.println("_____");
81 //
82 //  System.out.println("Do you want to add any product?\n1- Yes  2- No");
83 //  int add = input.nextInt();
84 //  System.out.println("_____");
85 //
86 //  switch (add) {
87 //      case 1:
88 //
89 //          System.out.println("which product ID do you want to add? \n1- " + e.getName() + " \n2- " + c.getName() + " \n3- " + b.getName());
90 //          int ad = input.nextInt();
91 //          switch (ad) {
92 //              case 1:
93 //                  cart.addProduct(e);
94 //
95 //                  break;
96 //              case 2:
97 //                  cart.addProduct(c);
98 //                  break;
99 //              case 3:
100 //                  cart.addProduct(b);
101 //                  break;
102 //              default:
103 //                  System.out.println("Wrong product ID");
104 //                  break;
105 //          }
106 //      }
107 //      System.out.println("_____");
108 //      System.out.println("Here's your order's summary:");
```

Notifications Output project1 (run) running... 1:1 INS Windows (CRLF)

24°C عالم جزيتا 6:55 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Source History

```
91 //      switch (ad) {
92 //      case 1:
93 //          cart.addProduct(e);
94 //
95 //          break;
96 //      case 2:
97 //          cart.addProduct(c);
98 //          break;
99 //      case 3:
100 //          cart.addProduct(b);
101 //          break;
102 //      default:
103 //          System.out.println("Wrong product ID");
104 //          break;
105 //
106 //      }
107 //      System.out.println("_____");
108 //      System.out.println("Here's your order's summary:");
109 //
110 //          cart.placeorder(1);
111 //          break;
112 //      case 2:
113 //          System.out.println("Here's your order's summary:");
114 //
115 //          cart.placeorder(1);
116 //          break;
117 //      default:
118 //          System.out.println("Wrong choise");
119 //          break;
120 //      }
121 //  }
122 }
123
124
125
126
127
```

Notifications Output project1 (run) running... 1:1 INS Windows (CRLF)

24°C عالم جزيتا

Search

6:55 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Output

project1 (run) x project1 (run) #2 x

```
run:
Welcome to the E-Commerce System!
Please enter your ID: 23011079
please enter your name: Zeyad Yasser Mahrous Al_Amrawy
please enter your address: Alexandria
How many products you want to add to your cart ?
4
which product would you like to add ?
1- smartphone
2- T-shirt
3- OOP
2
your Total is $19.99
which product would you like to add ?
1- smartphone
2- T-shirt
3- OOP
3
your Total is $59.980000000000004
which product would you like to add ?
1- smartphone
2- T-shirt
3- OOP
2
your Total is $79.97
which product would you like to add ?
1- smartphone
2- T-shirt
3- OOP
1
your Total is $679.96
would you like to place the order ?
1-Yes 2-No
1
```

Notifications Output project1 (run) running... 1:1 INS

24°C عالم جزيتا 6:58 PM 4/22/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help project1 - Apache NetBeans IDE 19 Search (Ctrl+I)

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

Output

project1 (run) x project1 (run) #2 x

```
2
your Total is $19.99
which product would you like to add ?
1- smartphone
2- T-shirt
3- OOP
3
your Total is $59.9800000000000004
which product would you like to add ?
1- smartphone
2- T-shirt
3- OOP
2
your Total is $79.97
which product would you like to add ?
1- smartphone
2- T-shirt
3- OOP
1
your Total is $679.96
would you like to place the order ?
1-Yes 2-No
1
Here's your order's summary:
order ID : 1
customer ID : 23011079
products:
1{T-shirt - 19.99$}
2{OOP - 39.99$}
3{T-shirt - 19.99$}
4{smartphone - 599.99$}
Total price: 679.96$
BUILD SUCCESSFUL (total time: 1 minute 34 seconds)
```

Notifications Output project1 (run) running... 1:1 INS

24°C عالم جزيتا 6:58 PM 4/22/2024