

```
ECommerceSystem.java x EletronicProduct.java x Product.java x ClothingProduct.java x
Source History
1 package e.commerce.system;
2 import java.util.Scanner;
3 public class ECommerceSystem {
4     public static void main(String[] args) {
5
6         Scanner input = new Scanner (source: System.in);
7
8         System.out.println("Welcome to the E-commerce System !");
9         System.out.print("Please enter your ID : ");
10        int ID = input.nextInt();
11        System.out.print("Please enter your name : ");
12        String name = input.nextLine();
13        input.nextLine();
14        System.out.print("Please enter your address : ");
15        String address = input.nextLine();
16
17        System.out.println("How many product you want to add to you cart ? ");
18        int nProduct = input.nextInt();
19
20        EletronicProduct electronicProduct = new EletronicProduct(brand: "Samsung", warrantyPeriod: 1, productid: 1, name: "smartphone", price: 599.99f);
21        ClothingProduct clothingProduct = new ClothingProduct(size: "Medium", radrio: "cotton", productid: 2, name: "T-shirt", price: 19.99f);
22        BookProduct bookProduct = new BookProduct(author: "O'Reilly", publisher: "X Pubications", productid: 3, name: "oop", price: 39.99f);
23        Customer customer = new Customer (customerid: ID, name, address);
24
25        Cart cart = new Cart (customerid: ID, nProduct);
26
27        int productID = 0;
28        for(int i = 0; i < nProduct; i++){
29            System.out.println("Which product would you want to add ? 1- smartPhone 2- T-shirt 3- oop ");
30            productID = input.nextInt();
31
32            switch (productID){
33                case 1 :
34                    cart.addProduct( product: electronicProduct, index: i );
35                    break;
36
37                case 2 :
38                    cart.addProduct( product: clothingProduct, index: i );
39                    break;
40
41                case 3 :
42                    cart.addProduct (product: bookProduct, index: i );
43                    break;
44
45                default:
46                    System.out.println("Invalid Product ID .");
47            }
48        }
49        System.out.println("Your total is "+cart.calculatePrice()+" $ .");
50        System.out.println("Would you like to place the order ? 1-Yes 2-No ");
51        int user = input.nextInt();
52        if(user == 1){
53            System.out.println("Here's your order's summary : ");
54            cart.placeOrder();
55        }else {
56            cart.removeProduct( index: productID);
57            System.out.println("thank you for your time ");
58        }
59    }
60 }
```

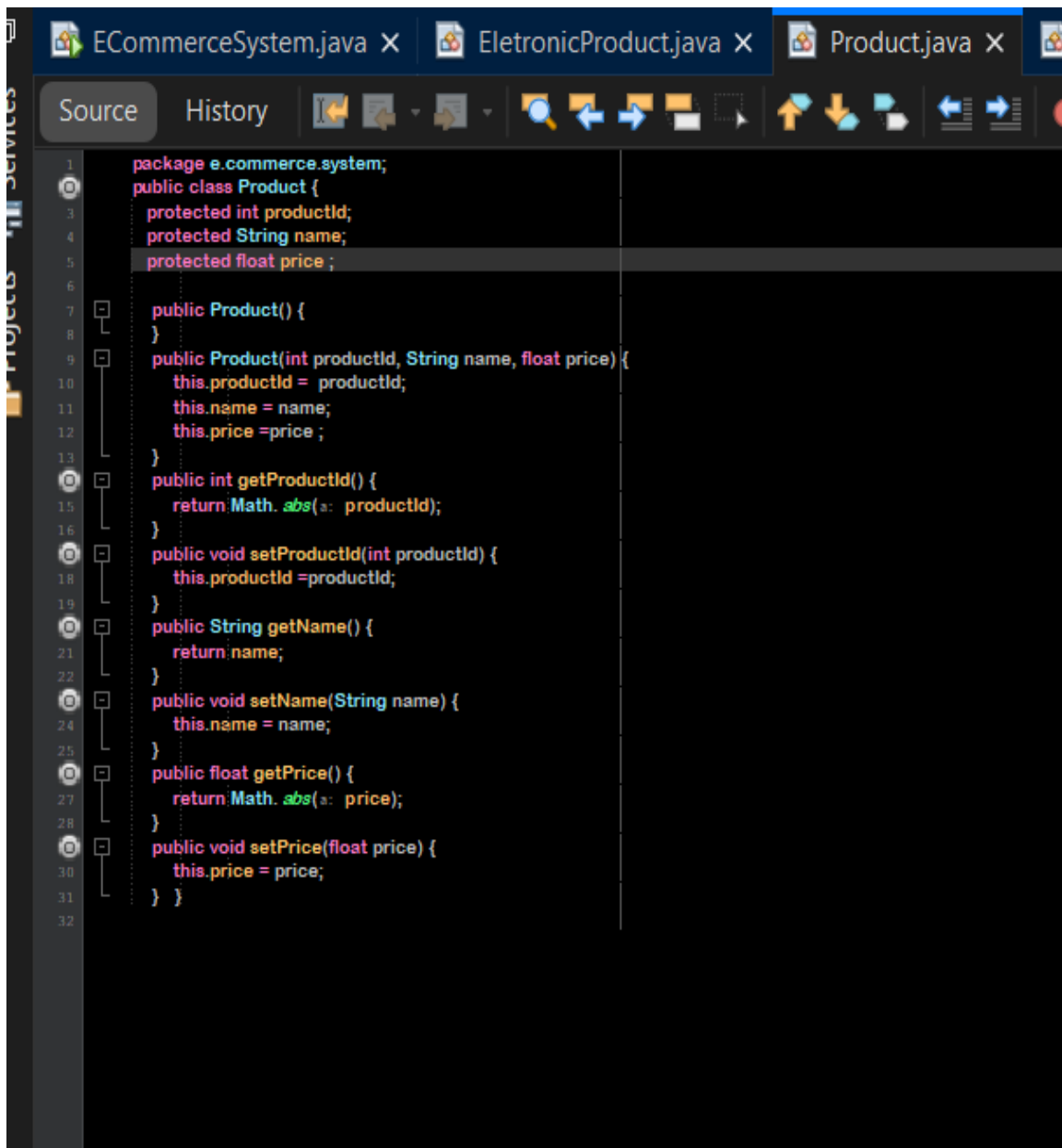
Services

Projects

ECommerceSystem.java × EletronicProduct.java × Product.java ×

Source History

1 package e.commerce.system;  
2 public class EletronicProduct extends Product {  
3 private String brand ;  
4 private int warrantyPeriod ;  
5  
6 public EletronicProduct() {  
7 }  
8 public EletronicProduct(String brand, int warrantyPeriod, int productId, String name, float price) {  
9 super(productId, name, price);  
10 this.brand = brand;  
11 this.warrantyPeriod = warrantyPeriod;  
12 }  
13 public String getBrand() {  
14 return brand;  
15 }  
16 public void setBrand(String brand) {  
17 this.brand = brand;  
18 }  
19 public int getWarrantyPeriod() {  
20 return Math.abs(a: warrantyPeriod);  
21 }  
22 public void setWarrantyPeriod(int warrantyPeriod) {  
23 this.warrantyPeriod = warrantyPeriod;  
24 }  
25 public int getProductId() {  
26 return Math.abs(a: productId);  
27 }  
28 public void setProductId(int productId) {  
29 this.productId = productId;  
30 }  
31 public String getName() {  
32 return name;  
33 }  
34 public void setName(String name) {  
35 this.name = name;  
36 }  
37 public float getPrice() {  
38 return Math.abs(a: price);  
39 }  
40 public void setPrice(float price) {  
41 this.price = price;  
42 }  
43 }  
44



```
1 package e.commerce.system;
2 public class Product {
3     protected int productId;
4     protected String name;
5     protected float price ;
6
7     public Product() {
8     }
9     public Product(int productId, String name, float price) {
10         this.productId = productId;
11         this.name = name;
12         this.price = price ;
13     }
14     public int getProductId() {
15         return Math.abs(a: productId);
16     }
17     public void setProductId(int productId) {
18         this.productId = productId;
19     }
20     public String getName() {
21         return name;
22     }
23     public void setName(String name) {
24         this.name = name;
25     }
26     public float getPrice() {
27         return Math.abs(a: price);
28     }
29     public void setPrice(float price) {
30         this.price = price;
31     }
32 }
```

BookProduct.java × ClothingProduct.java × ECommerceSystem.java

Source

History



```
1 package e.commerce.system;
2 public class BookProduct extends Product {
3     private String author ;
4     private String publisher ;
5
6     public BookProduct() {
7     }
8     public BookProduct(String author, String publisher, int productId, String name, float price) {
9         super(productId, name, price);
10        this.author = author;
11        this.publisher = publisher;
12    }
13    public String getAuthor() {
14        return author;
15    }
16    public void setAuthor(String author) {
17        this.author = author;
18    }
19    public String getPublisher() {
20        return publisher;
21    }
22    public void setPublisher(String publisher) {
23        this.publisher = publisher;
24    }
25    public int getProductId() {
26        return Math.abs(productId);
27    }
28    public void setProductId(int productId) {
29        this.productId = productId;
30    }
31    public String getName() {
32        return name;
33    }
34    public void setName(String name) {
35        this.name = name;
36    }
37    public float getPrice() {
38        return Math.abs(price);
39    }
40    public void setPrice(float price) {
41        this.price = price;
42    }
43 }
```



Projects Services

Customer.java × BookProduct.java × Clothing.java ×

Source History

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

Cart.java × Customer.java × BookProduct.java × CI

Source History

```
1 package e.commerce.system;
2 public class Cart {
3     private int customerId ;
4     private int nProduct ;
5     private Product [] products;
6
7     public Cart(int customerId, int nProduct) {
8         this.customerId = Math.abs(a: customerId);
9         this.nProduct = Math.abs(a: nProduct);
10        this.products = new Product [nProduct];
11    }
12    public int getCustomerId() {
13        return customerId;
14    }
15    public void setCustomerId(int customerId) {
16        this.customerId = customerId;
17    }
18    public int getnProduct() {
19        return nProduct;
20    }
21    public void setnProduct(int nProduct) {
22        this.nProduct = nProduct;
23    }
24    public Product[] getProducts() {
25        return products;
26    }
27    public void setProducts(Product[] products) {
28        this.products = products;
29    }
30    public void addProduct (Product product,int index) {
31        if ( index >=0 && index < products.length) {
32            products[index] = product;
33        } }
34    public void removeProduct (int index) {
35        if(index >= 0 && index <products.length){
36            products [index] =null ;
37        } }
38    public float calculatePrice ( ) {
39        float total =0.0f;
40        for(Product product : products){
41            if(product != null ){
42                total +=product.getPrice();
43            } }
44        return total ;
45    }
46    public void placeOrder (){
47        Order order =new Order (customerId ,orderId: 1 , products ,totalPrice: calculatePrice());
48        order.printOrderInfo();
49    } }
50
51
```

```
1 package e.commerce.system;
2 public class Order {
3     private int customerId ;
4     private int orderId ;
5     private Product [] products;
6     private float totalPrice ;
7
8     public Order() {
9     }
10    public Order(int customerId, int orderId, Product[] products, float totalPrice) {
11        this.customerId = Math.abs(a: customerId);
12        this.orderId = Math.abs(a: orderId);
13        this.products = products;
14        this.totalPrice = Math.abs(a: totalPrice);
15    }
16    public int getCustomerId() {
17        return customerId;
18    }
19    public void setCustomerId(int customerId) {
20        this.customerId = customerId;
21    }
22    public int getOrderId() {
23        return orderId;
24    }
25    public void setOrderId(int orderId) {
26        this.orderId = orderId;
27    }
28    public Product[] getProducts() {
29        return products;
30    }
31    public void setProducts(Product[] products) {
32        this.products = products;
33    }
34    public float getTotalPrice() {
35        return totalPrice;
36    }
37    public void setTotalPrice(float totalPrice) {
38        this.totalPrice = totalPrice;
39    }
40    public void printOrderInfo (){
41        System.out.println("customer ID :"+customerId);
42        System.out.println("order ID :"+orderId);
43        System.out.println("Products : ");
44        for (Product product : products) {
45            if(product != null ){
46                System.out.println("Name : " +product.getName() +" -Price : $ " +product.getPrice());
47            }
48        }
49        System.out.println("Total Price : $ " + calculateTotalPrice());
50    }
51    private double calculateTotalPrice (){
52        double totalPrice =0;
53        for(Product product : products){
54            if(product != null ){
55                totalPrice +=product.getPrice();
56            }
57        }
58        return totalPrice ;
59    }
60 }
```



Output - E-commerce system (run)

```
run:
Welcome to the E-commerce System !

Please enter your ID : 23011612
Please enter your name : yasmin hossam
Please enter your address : alex
How many product you want to add to you cart ?
4
Which product would you want to add ? 1- smartPhone 2- T-shirt 3- oop
2
Which product would you want to add ? 1- smartPhone 2- T-shirt 3- oop
3
Which product would you want to add ? 1- smartPhone 2- T-shirt 3- oop
2
Which product would you want to add ? 1- smartPhone 2- T-shirt 3- oop
1
Your total is 679.95996 $ .
Would you like to place the order ? 1-Yes 2-No
1
Here's your order's summary :
customer ID :23011612
order ID :1
Products :
Name : T-shirt --Price : $ 19.99
Name : oop --Price : $ 39.99
Name : T-shirt --Price : $ 19.99
Name : smartphone --Price : $ 599.99
Total Price : $ 679.9599914550781
BUILD SUCCESSFUL (total time: 38 seconds)
```