

```
70  
71     }  
72  
73     public float calcPrice() {
```

PROBLEMS 13 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
1 PS C:\Users\sherr\OneDrive\Desktop\UNI FINAL> cd "c:\Users\sherr\OneDrive\Desktop\iiiiii\" ; if ($?) { javac Main.java } ; if ($?) { java Main }  
Welcome to our E-Commerce system! Please Enter your name:  
sherry  
Enter your ID:  
23011302  
Enter your address:  
alex  
How many products do you want to add to your cart?  
2  
Which products do you want to add?  
(1) Mobile Phone  
(2)Java Book  
(3)TShirt  
1  
Which products do you want to add?  
(1) Mobile Phone  
(2)Java Book  
(3)TShirt  
2  
Your total price is: 639.89  
Confirm the order? click 1 for yes  
1  
Name: Mobile Phone  
Price: 599.9  
ID: 1  
Name: OOP  
Price: 39.99  
ID: 3  
Your total is: 639.89  
PS C:\Users\sherr\OneDrive\Desktop\iiiiii> |
```

```

3 public class Main {
4     public static void main(String[] args){
38         Product[] products = new Product[nprod];
39         for (int i=0;i<nprod;i++){
40             System.out.println(x:"Which products do you want to add?\n(1) Mobile Phone\n(2)Java Book\n(3)TShirt");
2 41             int choice = sc.nextInt();
42             switch (choice) {
43                 case 1:
44                     products[i] = ep;
45                     break;
46                 case 2:
47                     products[i] = book;
48                     break;
1 49                 case 3:
50                     products[i] = cp;
51                     break;
52                 default:
53                     System.out.println(x:"Invalid Choice");
54                     i--;
55                     break;
56             }
57         }
58         cart.setProducts(products);
59         float totalPrice = cart.calcPrice();
60         System.out.println("Your total price is: "+totalPrice);
61         System.out.println(x:"Confirm the order? click 1 for yes");
62         int choice2 = sc.nextInt();
63         switch (choice2){
64             case 1:
65                 cart.placeOrder(products);
66                 break;
67             default:
68                 System.out.println(x:"enter ID of order you want to remove: ");
69                 int IDr = sc.nextInt();
70                 switch (IDr){
71                     case(1):
72                         cart.removeProduct(ep);
73                         System.out.println("product removed. now your total is: "+cart.calcPrice());

```

PROBLEMS 13 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

(3)TShirt
2
Your total price is: 639.89
Confirm the order? click 1 for yes

```

C:\Users\sherr> OneDrive > Desktop > iiiiii > Main.java > Main > main(String[])

```
1  import java.util.Scanner;
2
3  public class Main {
    Run | Debug
4      public static void main(String[] args){
5          Cart cart = new Cart();
6          ElectronicProduct ep = new ElectronicProduct();
7          ep.setName(name:"Mobile Phone");
8          ep.setBrand(brand:"Samsung Galaxy Note 20");
9          ep.setWarrantyPeriod(warrantyPeriod:1);
10         ep.setPrice(price:599.9);
11         ep.setProductID(productID:1);
12         ClothingProduct cp = new ClothingProduct();
13         cp.setFabric(fabric:"Cotton");
14         cp.setName(name:"T-Shirt");
15         cp.setPrice(price:19.99);
16         cp.setSize(size:"Medium");
17         cp.setProductID(productID:2);
18         BookProduct book = new BookProduct();
19         book.setAuthor(author:"O'Rielly");
20         book.setName(name:"OOP");
21         book.setPrice(price:39.99);
22         book.setProductID(productID:3);
23         book.setPublisher(publisher:"X Publications");
24         Customer customer = new Customer();
25         Scanner sc = new Scanner (System.in);
26         System.out.println(x:"Welcome to our E-Commerce system! Please Enter your name: ");
27         String name = sc.nextLine();
28         customer.setName(name);
29         System.out.println(x:"Enter your ID: ");
30         int id = sc.nextInt();
31         customer.setCustomerID(id);
32         System.out.println(x:"Enter your address: ");
33         String address = sc.nextLine();
34         sc.nextLine();
35         customer.setAddress(name);
36         System.out.println(x:"How many products do you want to add to your cart?");
37         int nprod = sc.nextInt();
38         Product[] products = new Product[nprod];
```

PROBLEMS 13 OUTPUT DEBUG CONSOLE TERMINAL PORTS

(3)TShirt

2

Your total price is: 639.89

Confirm the order? click 1 for yes



C:\Users\sherr> OneDrive > Desktop > iiiiii > Cart.java > Cart

```
3  class Cart {
53      public void removeProduct(Product wanted) {
54          //SHUTTER++
66      }
67  }
68      setNProducts(getNProducts() - 1);
69      setProducts(pros2);
70  }
71  }
72
73      public float calcPrice() {
74          float totalPrice = 0;
75          for (int i = 0; i < products.length; i++) {
76              totalPrice += products[i].getPrice();
77          }
78          return totalPrice;
79      }
80
81      public void PrintProductInfo(Product[] product) {
82          for (int i = 0; i < product.length; i++) {
83              System.out.println("Name: " + product[i].getName());
84              System.out.println("Price: " + product[i].getPrice());
85              System.out.println("ID: " + product[i].getProductID());
86          }
87          System.out.println("Your total is: " + calcPrice());
88      }
89
90      public void placeOrder(Product[] product) {
91          PrintProductInfo(product);
92      }
93  }
94
```

PROBLEMS 9 OUTPUT DEBUG CONSOLE TERMINAL PORTS

(3)TShirt

BookProduct.java 1 Cart.java 2 ClothingProduct.java 1 Customer.java 1 ElectronicProduct.java 1 Main.java 3 Product.java 1 X

C:\Users> sherr > OneDrive > Desktop > IIIII > Product.java > ...

```

1  import java.lang.Math;
2  public class Product{
3      private int productID;
4      private String name;
5      private double price;
6
7      public int getProductID() {
8          return this.productID;
9      }
10
11     public void setProductID(int productID){
12         if (productID>0)
13             this.productID = productID;
14         else
15             this.productID = Math.abs(productID);
16     }
17
18
19     public String getName() {
20         return this.name;
21     }
22
23     public void setName(String name) {
24         this.name = name;
25     }
26
27     public double getPrice() {
28         return this.price;
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 }

```

PROBLEMS 13 OUTPUT DEBUG CONSOLE TERMINAL PORTS

(3)Tshirt

```

1  import java.lang.Math;
2  public class Tshirt {
3      private int productID;
4      private String name;
5      private double price;
6
7      public int getProductID() {
8          return this.productID;
9      }
10
11     public void setProductID(int productID){
12         if (productID>0)
13             this.productID = productID;
14         else
15             this.productID = Math.abs(productID);
16     }
17
18
19     public String getName() {
20         return this.name;
21     }
22
23     public void setName(String name) {
24         this.name = name;
25     }
26
27     public double getPrice() {
28         return this.price;
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 }

```

C:\> Users > sherr > OneDrive > Desktop > iiiii > Customer.java > ...

```

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

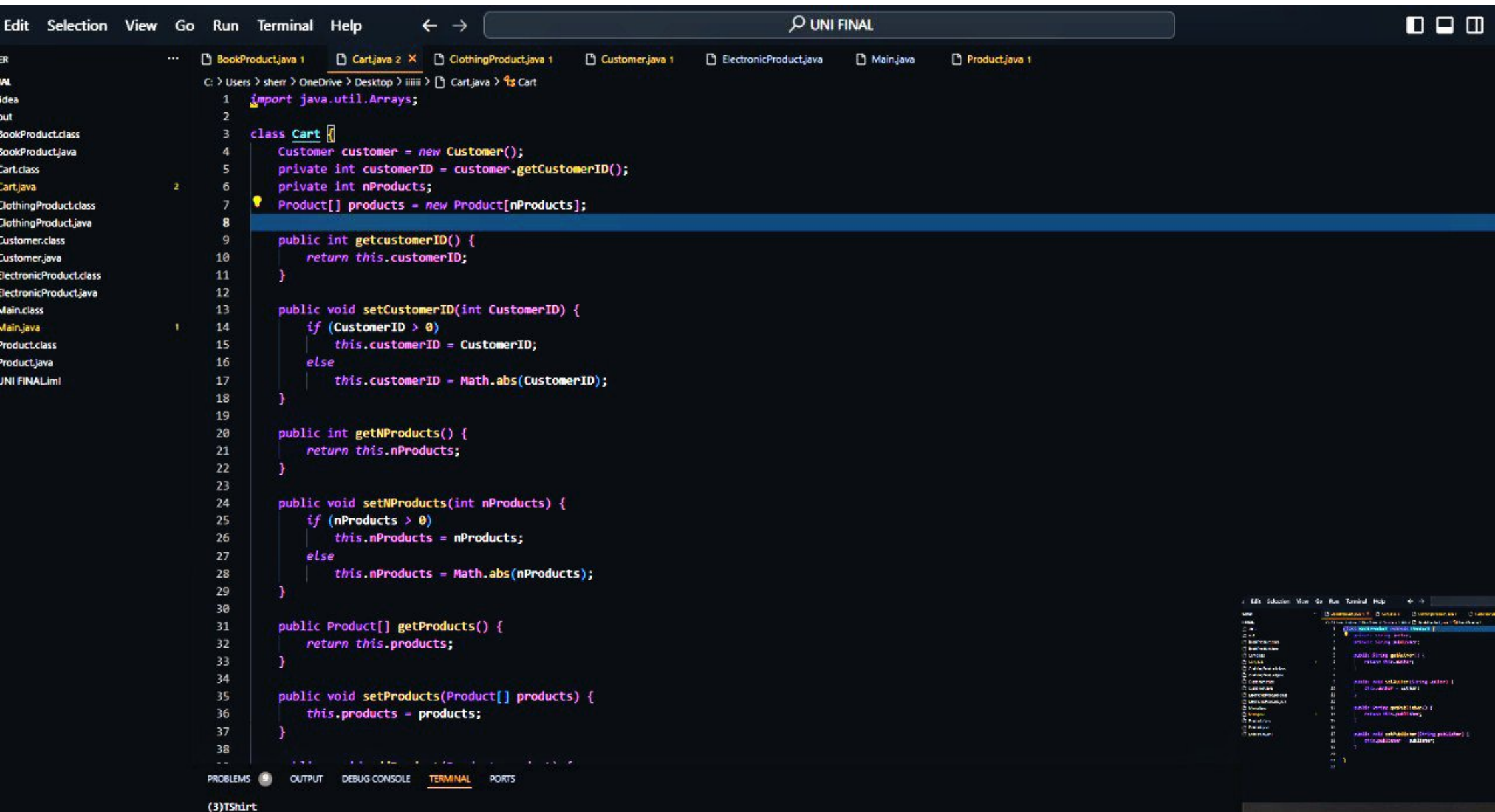
```

C:\> Users > sherr > OneDrive > Desktop > iiiiii > Main.java > Main > main(String[])

```
3 public class Main {
4     public static void main(String[] args){
5
63         switch (choice2){
64             case 1:
65                 cart.placeOrder(products);
66                 break;
67             default:
68                 System.out.println(x:"enter ID of order you want to remove: ");
69                 int IDr = sc.nextInt();
70                 switch (IDr){
71                     case(1):
72                         cart.removeProduct(ep);
73                         System.out.println("product removed. now your total is: "+cart.calcPrice());
74                         break;
75                     case(2):
76                         cart.removeProduct(cp);
77                         System.out.println("product removed. now your total is: "+cart.calcPrice());
78                         break;
79                     case(3):
80                         cart.removeProduct(book);
81                         System.out.println("product removed. now your total is: "+cart.calcPrice());
82                         break;
83                     default:
84                         System.out.println(x:"invalid id");
85                         break;
86                 }
87             }
88         }
89     }
90 }
```

```
2 public class Main {
3     public static void main(String[] args){
4         Scanner sc = new Scanner(System.in);
5         System.out.println("Enter the ID of the product you want to remove: ");
6         int IDr = sc.nextInt();
7         switch (IDr){
8             case 1:
9                 cart.removeProduct(ep);
10                 System.out.println("product removed. now your total is: "+cart.calcPrice());
11                 break;
12             case 2:
13                 cart.removeProduct(cp);
14                 System.out.println("product removed. now your total is: "+cart.calcPrice());
15                 break;
16             case 3:
17                 cart.removeProduct(book);
18                 System.out.println("product removed. now your total is: "+cart.calcPrice());
19                 break;
20             default:
21                 System.out.println("invalid id");
22                 break;
23         }
24     }
25 }
```







C:\Users\sherr> OneDrive > Desktop > iiiiii > Cart.java > Cart

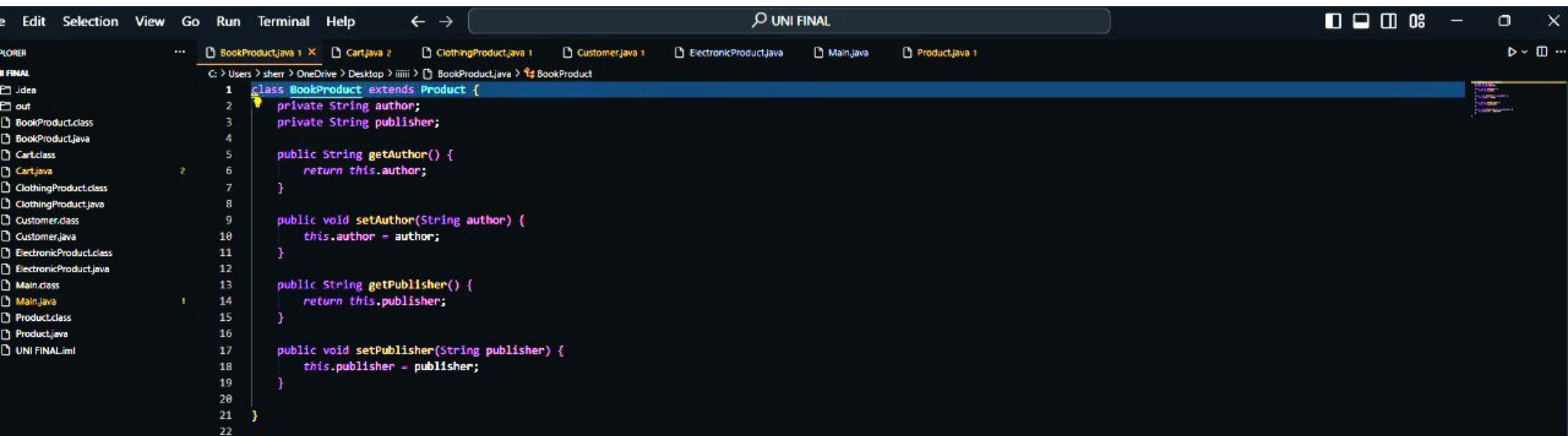
```
3  class Cart {
37      }
38
39      public void addProduct(Product product) {
40          int emptySpace = -1;
41          for (int i = 0; i < products.length; i++) {
42              if (products[i] == null) {
43                  emptySpace = i;
44                  break;
45              }
46          }
47          if (emptySpace != -1)
48              products[emptySpace] = product;
49          else
50              System.out.println(x:"Your cart is full");
51      }
52
53      public void removeProduct(Product wanted) {
54          Product[] pros2 = new Product[products.length - 1];
55          int indexOfRemovedPro = 0;
56          for (int i = 0; i < products.length; i++) {
57              if (products[i].getProductID() == wanted.getProductID())
58                  indexOfRemovedPro = i;
59              break;
60          }
61          int shifter = 0;
62          for (int i = 0; i < products.length; i++) {
63              if (i != indexOfRemovedPro) {
64                  pros2[shifter] = products[i];
65                  shifter++;
66              }
67          }
68          setNProducts(getNProducts() - 1);
69          setProducts(pros2);
70
71      }
72
73      public float calcPrice() {
```

PROBLEMS 9 OUTPUT DEBUG CONSOLE TERMINAL PORTS

(3)TShirt

2

Your total price is: 639.89



... BookProduct.java 1 Cart.java 2 ClothingProduct.java 1 X Customer.java 1 ElectronicProduct.java Main.java Product.java 1

C:\Users\sherr> OneDrive\Deskto... > ClothingProduct.java > ClothingProduct

```

1  class ClothingProduct extends Product{
2      private String size;
3      private String fabric;
4
5      public String getSize() {
6          return this.size;
7      }
8
9      public void setSize(String size) {
10         this.size = size;
11     }
12
13     public String getFabric() {
14         return this.fabric;
15     }
16
17     public void setFabric(String fabric) {
18         this.fabric = fabric;
19     }
20
21 }
22

```

... BookProduct.java 1 Cart.java 2 ClothingProduct.java 1 Customer.java 1 ElectronicProduct.java 1 X Main.java Product.java 1

C:\Users\sherr> OneDrive > Desktop > iiiiii > ElectronicProduct.java > ElectronicProduct

```
1 class ElectronicProduct extends Product {
2     private String brand;
3     private int warrantyPeriod;
4
5     public String getBrand() {
6         return this.brand;
7     }
8
9     public void setBrand(String brand) {
10        this.brand = brand;
11    }
12
13    public int getWarrantyPeriod() {
14        return this.warrantyPeriod;
15    }
16
17    public void setWarrantyPeriod(int warrantyPeriod) {
18        if (warrantyPeriod > 0)
19            this.warrantyPeriod = warrantyPeriod;
20        else
21            this.warrantyPeriod = Math.abs(warrantyPeriod);
22    }
23
24 }
25
```