

```
public class product
{
    int prodID;
    String name;
    float price;

    public product(int prodID, String name, float price) {
        this.prodID = prodID;
        this.name = name;
        this.price = price;
    }

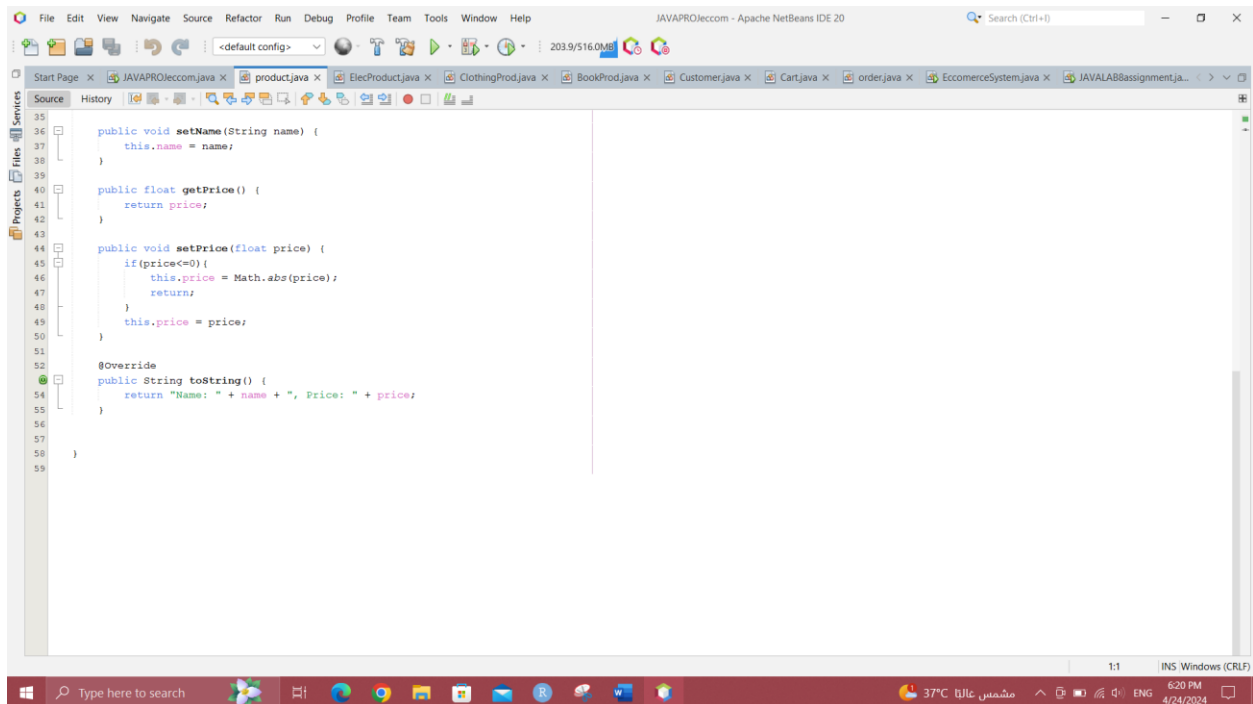
    public int getProdID() {
        return prodID;
    }

    public void setProdID(int prodID) {
        if(prodID<=0){
            this.prodID = Math.abs(prodID);
            return;
        }
        this.prodID = prodID;
    }

    public String getName() {
        return name;
    }

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

    public float getPrice() {
        return price;
    }
}
```



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

public float getPrice() {
    return price;
}

public void setPrice(float price) {
    if(price<=0){
        this.price = Math.abs(price);
        return;
    }
    this.price = price;
}

@Override
public String toString() {
    return "Name: " + name + ", Price: " + price;
}
}
```

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

JAVAPROleccom - Apache NetBeans IDE 20

Search (Ctrl+I)

Start Page x JAVAPROleccom.java x product.java x ElecProduct.java x ClothingProd.java x BookProd.java x Customer.java x Cart.java x order.java x EcommerceSystem.java x JAVALABAssignment.java...

Source History

```
1 /*
2  * Click https://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  * Click https://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4  */
5 package javaproleccom;
6
7 public class ElecProduct extends product
8 {
9     String brand;
10    int warrantyPeriod;
11
12    public ElecProduct(String brand, int warrantyPeriod, int prodID, String name, float price) {
13        super(prodID, name, price);
14        this.brand = brand;
15        this.warrantyPeriod = warrantyPeriod;
16    }
17
18    public String getBrand() {
19        return brand;
20    }
21
22    public void setBrand(String brand) {
23        this.brand = brand;
24    }
25
26    public int getWarrantyPeriod() {
27        return warrantyPeriod;
28    }
29
30    public void setWarrantyPeriod(int warrantyPeriod) {
31        if (warrantyPeriod < 0) {
32            this.warrantyPeriod = Math.abs(warrantyPeriod);
33            return;
34        }
35        this.warrantyPeriod = warrantyPeriod;
36    }
37 }
```

1:1 INS Windows (CRLF)

Type here to search 37°C مشمس عالية 6:20 PM 4/24/2024

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

JAVAPROleccom - Apache NetBeans IDE 20

Search (Ctrl+I)

Start Page x JAVAPROleccom.java x product.java x ElecProduct.java x ClothingProd.java x BookProd.java x Customer.java x Cart.java x order.java x EcommerceSystem.java x JAVALABAssignment.java...

Source History

```
1 /*
2  * Click https://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  * Click https://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4  */
5 package javaproleccom;
6
7 public class ClothingProd extends product
8 {
9     String size;
10    String fabric;
11
12    public ClothingProd(String size, String fabric, int prodID, String name, float price) {
13        super(prodID, name, price);
14        this.size = size;
15        this.fabric = fabric;
16    }
17
18    public String getSize() {
19        return size;
20    }
21
22    public void setSize(String size) {
23        this.size = size;
24    }
25
26    public String getFabric() {
27        return fabric;
28    }
29
30    public void setFabric(String fabric) {
31        this.fabric = fabric;
32    }
33
34    }
35
36
37 }
```

1:1 INS Windows (CRLF)

Type here to search ارتفاع قياسي 6:20 PM 4/24/2024

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help JAVAPROJeccom - Apache NetBeans IDE 20

Start Page x JAVAPROJeccom.java x product.java x ElecProduct.java x ClothingProd.java x BookProd.java x Customer.java x Cart.java x order.java x EccommerceSystem.java x JAVALABAssignmentJa...

```
1 /*
2  * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4  */
5 package javaprojecom;
6
7 public class BookProd extends product
8 {
9     String author;
10    String publisher;
11
12    public BookProd(String author, String publisher, int prodID, String name, float price) {
13        super(prodID, name, price);
14        this.author = author;
15        this.publisher = publisher;
16    }
17
18    public BookProd (int prodID, String name, float price) {
19        super(prodID, name, price);
20    }
21    public String getAuthor() {
22        return author;
23    }
24
25    public void setAuthor(String author) {
26        this.author = author;
27    }
28
29    public String getPublisher() {
30        return publisher;
31    }
32
33    public void setPublisher(String publisher) {
34        this.publisher = publisher;
35    }
36
37 }
```

1:1 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help JAVAPROJeccom - Apache NetBeans IDE 20

Start Page x JAVAPROJeccom.java x product.java x ElecProduct.java x ClothingProd.java x BookProd.java x Customer.java x Cart.java x order.java x EccommerceSystem.java x JAVALABAssignmentJa...

```
1 /*
2  * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4  */
5 package javaprojecom;
6
7 public class Customer
8 {
9
10    int CustomerID;
11    String name;
12    String address;
13
14    public Customer(int CustomerID, String name, String address) {
15        this.CustomerID = CustomerID;
16        this.name = name;
17        this.address = address;
18    }
19
20    public int getCustomerID() {
21        return CustomerID;
22    }
23
24    public void setCustomerID(int CustomerID) {
25        if(CustomerID<=0){
26            this.CustomerID = Math.abs(CustomerID);
27            return;
28        }
29        this.CustomerID = CustomerID;
30    }
31
32    public String getName() {
33        return name;
34    }
35
36    public void setName(String name) {
37        this.name = name;
38    }
39 }
```

8:23 INS Windows (CRLF)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help JAVAPROJeccom - Apache NetBeans IDE 20

Start Page x JAVAPROJeccom.java x product.java x ElecProduct.java x ClothingProd.java x BookProd.java x Customer.java x Cart.java x order.java x EcommerceSystem.java x JAVALABAssignment.java

Source History

```
27     return;
28 }
29     this.CustomerID = CustomerID;
30 }
31
32 public String getName() {
33     return name;
34 }
35
36 public void setName(String name) {
37     this.name = name;
38 }
39
40 public String getAddress() {
41     return address;
42 }
43
44 public void setAddress(String address) {
45     this.address = address;
46 }
47
48
49
50 }
51
```

823 INS Windows (CRLF)

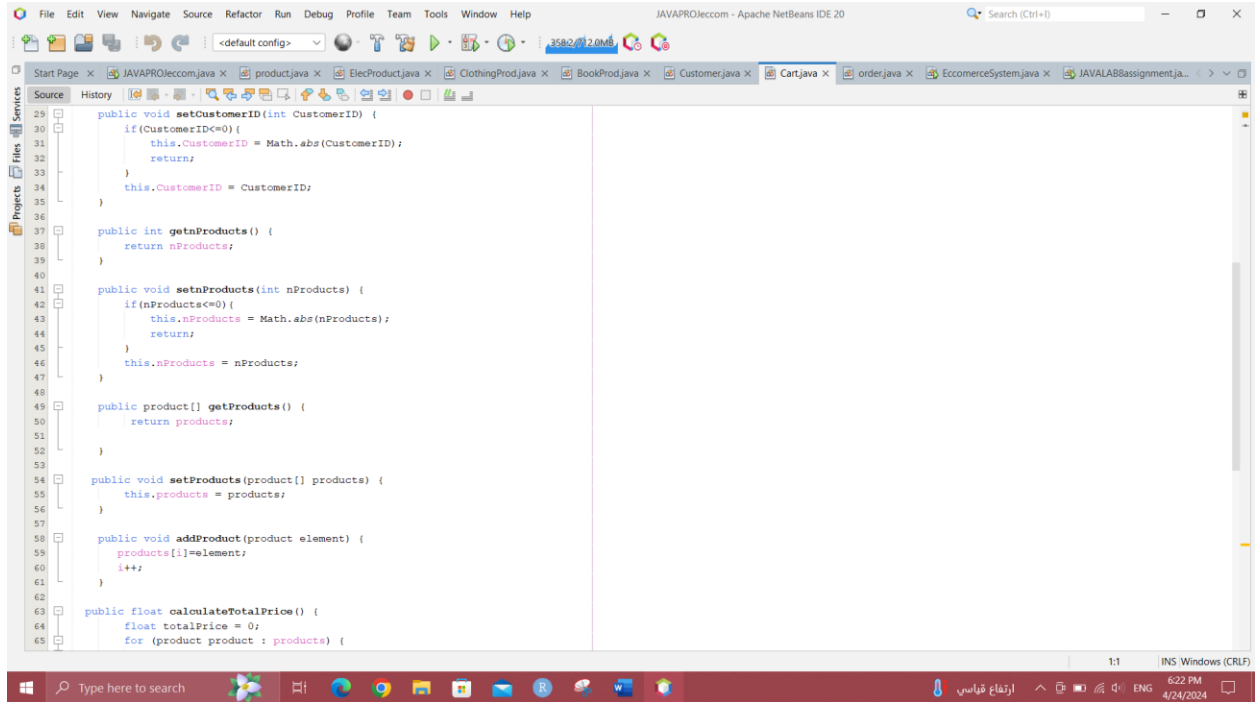
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help JAVAPROJeccom - Apache NetBeans IDE 20

Start Page x JAVAPROJeccom.java x product.java x ElecProduct.java x ClothingProd.java x BookProd.java x Customer.java x Cart.java x order.java x EcommerceSystem.java x JAVALABAssignment.java

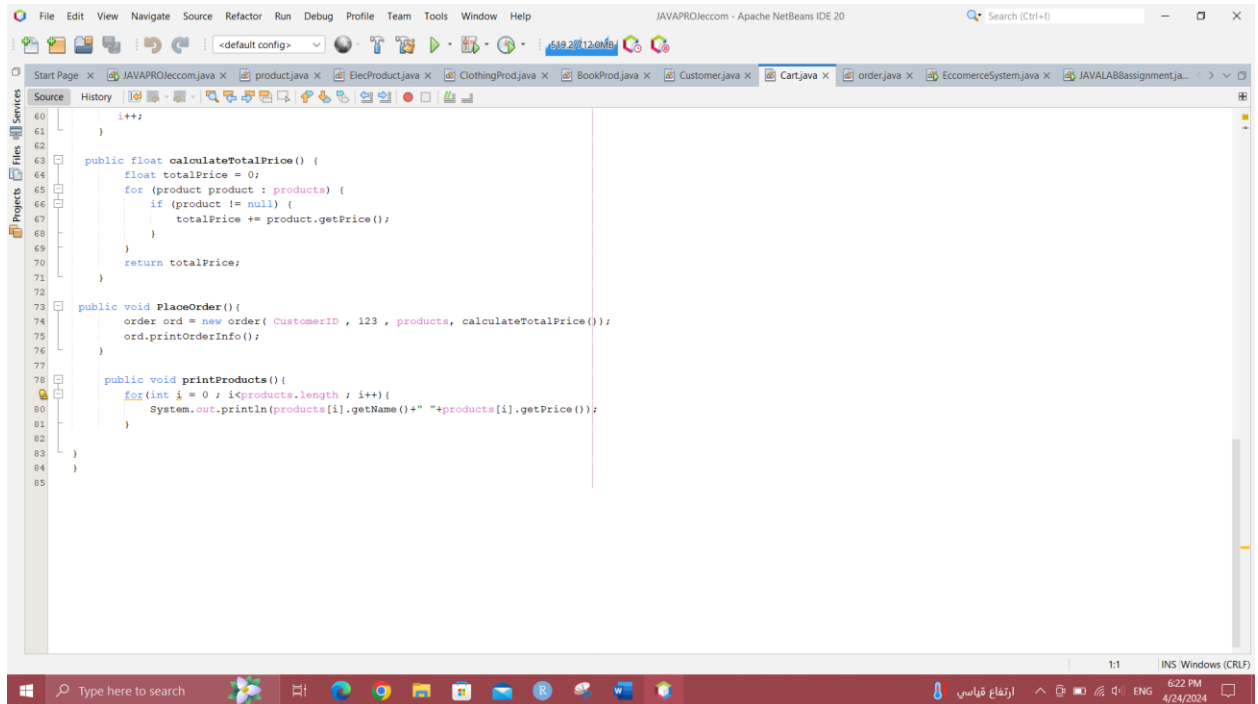
Source History

```
1  /*
2   * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3   * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4   */
5   package javaprojeccom;
6
7
8   public class Cart
9   {
10      int CustomerID;
11      int nProducts;
12      int i = 0;
13      product[] products;
14
15      public Cart() {
16      }
17
18      public Cart(int customerId, int nProducts) {
19          this.CustomerID = Math.abs(customerId);
20          this.nProducts = Math.abs(nProducts);
21          products = new product[nProducts];
22      }
23
24      public int getCustomerID() {
25          return CustomerID;
26      }
27
28      public void setCustomerID(int CustomerID) {
29          if(CustomerID<=0){
30              this.CustomerID = Math.abs(CustomerID);
31              return;
32          }
33          this.CustomerID = CustomerID;
34      }
35
36      public int getnProducts() {
37
```

1:1 INS Windows (CRLF)



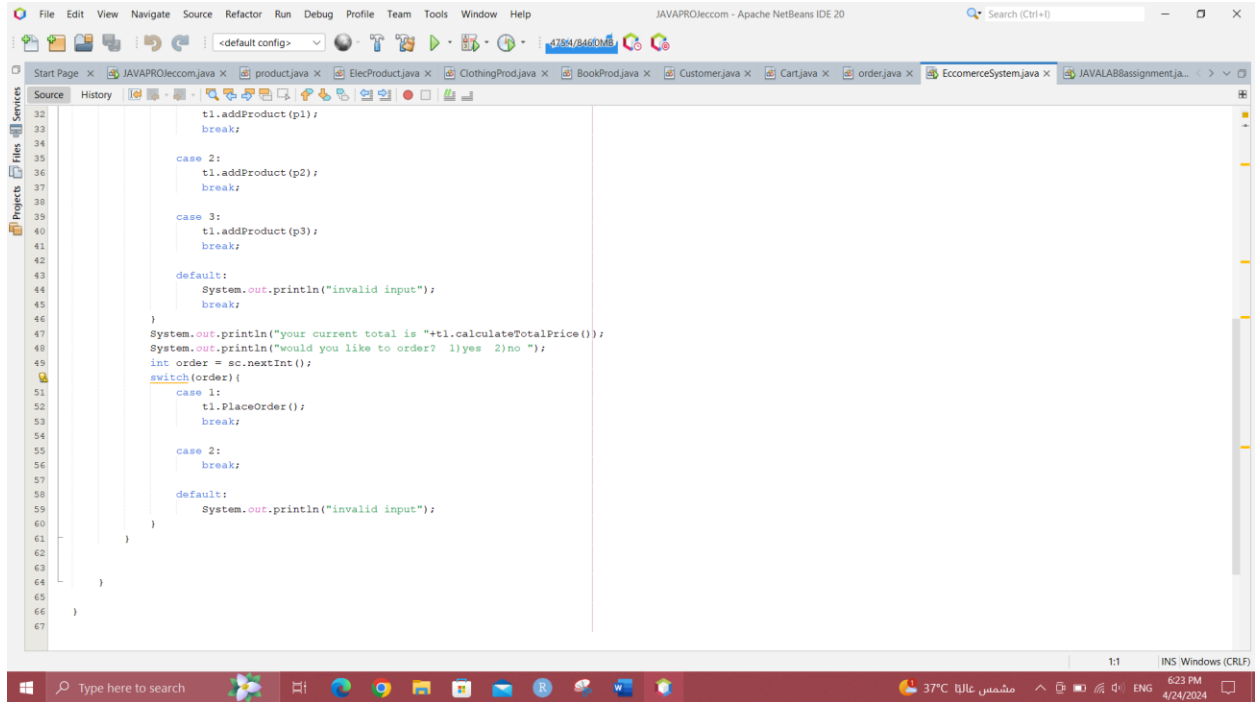
```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
JAVAPROJecom - Apache NetBeans IDE 20
Search (Ctrl+I)
Start Page x JAVAPROJecom.java x product.java x ElecProduct.java x ClothingProd.java x BookProd.java x Customer.java x Cart.java x order.java x EcommerceSystem.java x JAVALABAssignment.java...
Source History
29 public void setCustomerID(int CustomerID) {
30     if(CustomerID<=0){
31         this.CustomerID = Math.abs(CustomerID);
32         return;
33     }
34     this.CustomerID = CustomerID;
35 }
36
37 public int getnProducts() {
38     return nProducts;
39 }
40
41 public void setnProducts(int nProducts) {
42     if(nProducts<=0){
43         this.nProducts = Math.abs(nProducts);
44         return;
45     }
46     this.nProducts = nProducts;
47 }
48
49 public product[] getProducts() {
50     return products;
51 }
52
53
54 public void setProducts(product[] products) {
55     this.products = products;
56 }
57
58 public void addProduct(product element) {
59     products[i]=element;
60     i++;
61 }
62
63 public float calculateTotalPrice() {
64     float totalPrice = 0;
65     for (product product : products) {
```



```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
JAVAPROJecom - Apache NetBeans IDE 20
Search (Ctrl+I)
Start Page x JAVAPROJecom.java x product.java x ElecProduct.java x ClothingProd.java x BookProd.java x Customer.java x Cart.java x order.java x EcommerceSystem.java x JAVALABAssignment.java...
Source History
60     i++;
61 }
62
63 public float calculateTotalPrice() {
64     float totalPrice = 0;
65     for (product product : products) {
66         if (product != null) {
67             totalPrice += product.getPrice();
68         }
69     }
70     return totalPrice;
71 }
72
73 public void PlaceOrder(){
74     order ord = new order( CustomerID , 123 , products, calculateTotalPrice());
75     ord.printOrderInfo();
76 }
77
78 public void printProducts(){
79     for(int i = 0 ; i<products.length ; i++){
80         System.out.println(products[i].getName()+" "+products[i].getPrice());
81     }
82 }
83 }
84
85
```

```
1  * Click https://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
2  * Click https://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
3  */
4
5  package javaprojecom;
6  import java.util.Arrays;
7
8  public class order
9  {
10     int CustomerID;
11     int OrderID;
12     product[] products;
13     float totalPrice;
14
15     public order(int CustomerID, int OrderID, product[] products, float totalPrice) {
16         this.CustomerID = CustomerID;
17         this.OrderID = OrderID;
18         this.products = products;
19         this.totalPrice = totalPrice;
20     }
21
22
23     public void printOrderInfo () {
24         System.out.println("here is your order summary: \norderID: "+OrderID+"\ncustomerID: "+CustomerID+"\nproducts: "+Arrays.toString(products));
25     }
26
27     public void printProducts() {
28         for(int i = 0 ; i<products.length ; i++){
29             System.out.println(products[i].getName()+" "+products[i].getPrice());
30         }
31     }
32
33
34
35
36
37 }
```

```
1  * Click https://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
2  * Click https://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
3  */
4
5  package javaprojecom;
6  import java.util.Scanner;
7  import java.util.Arrays;
8
9  public class EcommerceSystem {
10     public static void main(String[] args) {
11         Scanner sc = new Scanner(System.in);
12         ElecProduct p1 = new ElecProduct("samsung",10,1,"phone",1200);
13         ClothingProd p2 = new ClothingProd("M","cotton",2,"tshirt",399);
14         BookProd p3 = new BookProd("paulo coello", "A24",3,"witch of portobello",295);
15         System.out.println("Welcome to Ecommerce system!");
16         System.out.println("Please enter your ID: ");
17         int id = sc.nextInt();
18         System.out.println("Please enter your name: ");
19         String name = sc.next();
20         System.out.println("Please enter your address: ");
21         String add = sc.next();
22         Customer c1 = new Customer(id,name,add);
23         System.out.println("How many products do you want to purchase? ");
24         int nprod = sc.nextInt();
25         Cart t1 = new Cart(id,nprod);
26         for (int i = 0 ; i<nprod ; i++){
27             System.out.println("Which product do you want?");
28             System.out.println("1)phone 2)tshirt 3)book");
29             int choose = sc.nextInt();
30             switch (choose){
31                 case 1:
32                     t1.addProduct(p1);
33                     break;
34
35                 case 2:
36                     t1.addProduct(p2);
37                     break;
38             }
39         }
40     }
41 }
```



input: java:ecommerce (run)

```
> run:
Welcome to Ecommerce system!
Please enter your ID:
111
Please enter your name:
nada
Please enter your address:
alex
How many products do you want to purchase?
3
which product do you want?
1)phone 2)tshirt 3)book
1
your current total is 1200.0
would you like to order? 1)yes 2)no
1
here is your order summary:
orderID: 123
customerID: 111
products: [Name: phone, Price: 1200.0, null, null]
which product do you want?
1)phone 2)tshirt 3)book
2
your current total is 1599.0
would you like to order? 1)yes 2)no
1
here is your order summary:
orderID: 123
customerID: 111
products: [Name: phone, Price: 1200.0, Name: tshirt, Price: 399.0, null]
which product do you want?
1)phone 2)tshirt 3)book
3
your current total is 1894.0
would you like to order? 1)yes 2)no
1
here is your order summary:
orderID: 123
customerID: 111
products: [Name: phone, Price: 1200.0, Name: tshirt, Price: 399.0, Name: witch of portobello, Price: 295.0]
BUILD SUCCESSFUL (total time: 11 seconds)
```