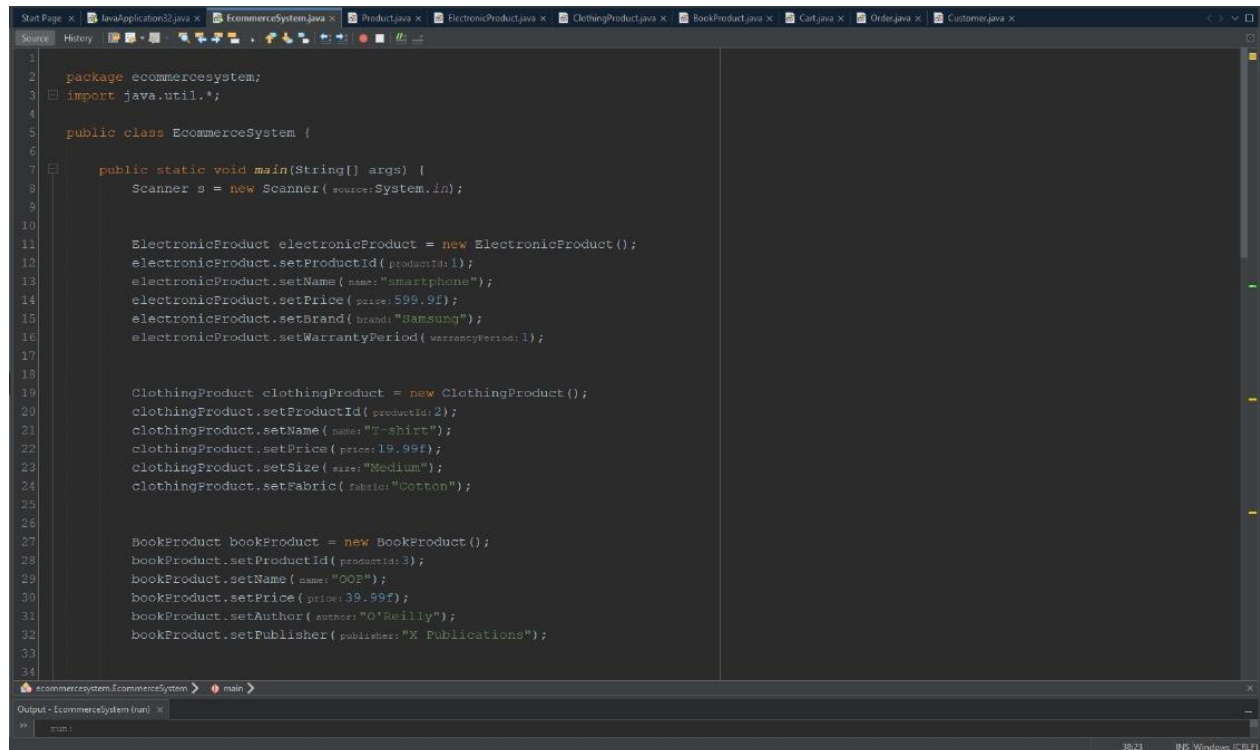


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22010309

Main ( EcommerceSystem ):



```
1 package ecommerceSystem;
2
3 import java.util.*;
4
5 public class EcommerceSystem {
6
7     public static void main(String[] args) {
8         Scanner s = new Scanner(System.in);
9
10
11         ElectronicProduct electronicProduct = new ElectronicProduct();
12         electronicProduct.setProductId( productId:1);
13         electronicProduct.setName( name:"smartphone");
14         electronicProduct.setPrice( price:599.9f);
15         electronicProduct.setBrand( brand:"Samsung");
16         electronicProduct.setWarrantyPeriod( warrantyPeriod:1);
17
18
19         ClothingProduct clothingProduct = new ClothingProduct();
20         clothingProduct.setProductId( productId:2);
21         clothingProduct.setName( name:"T-shirt");
22         clothingProduct.setPrice( price:19.99f);
23         clothingProduct.setSize( size:"Medium");
24         clothingProduct.setFabric( fabric:"Cotton");
25
26
27         BookProduct bookProduct = new BookProduct();
28         bookProduct.setProductId( productId:3);
29         bookProduct.setName( name:"OOP");
30         bookProduct.setPrice( price:39.99f);
31         bookProduct.setAuthor( author:"O'Reilly");
32         bookProduct.setPublisher( publisher:"X Publications");
33
34     }
```

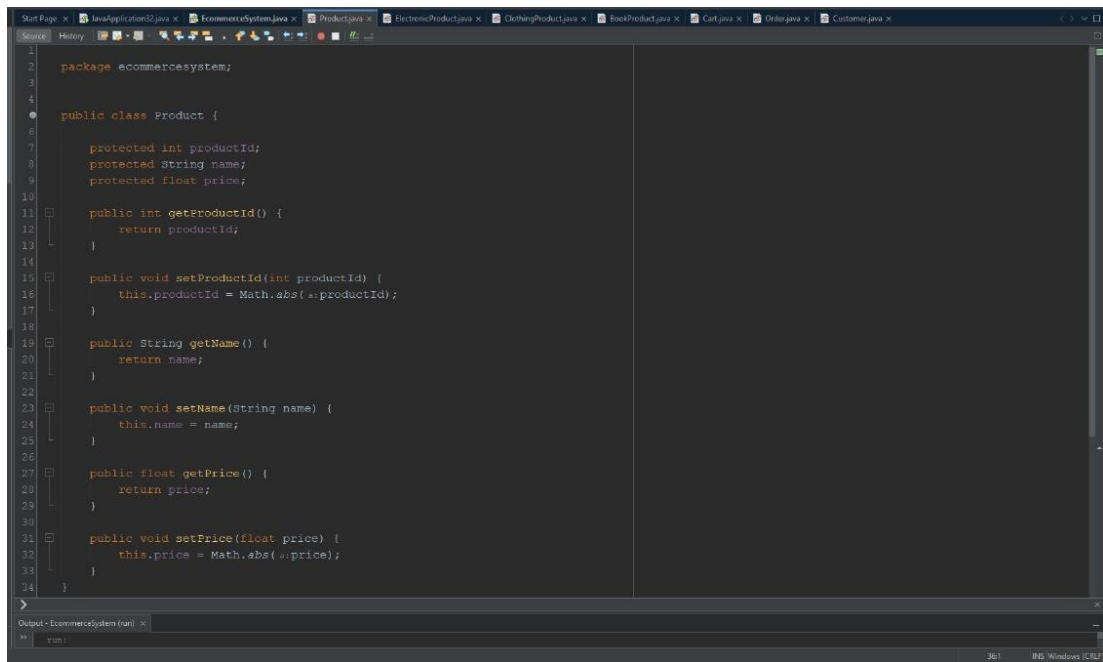
ecommerceSystem.EcommerceSystem > main

Output - EcommerceSystem (main)

38:23 INF Windows (CRLF)

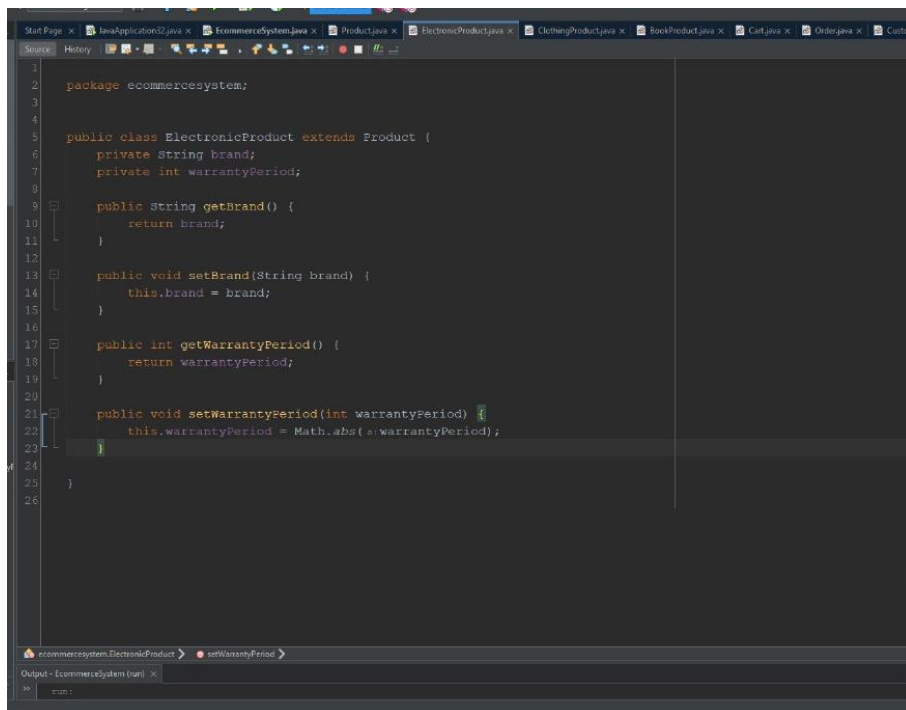
```
Start Page x JavaApplication2.java x EcommerceSystem.java x Product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Cart.java x Order.java x Customer.java x
Source History
35 Customer customer = new Customer();
36 System.out.print("please enter your id : ");
37 customer.setCustomerId( customerid:s.nextInt());
38 s.nextLine();
39 System.out.print("please enter your name: ");
40 customer.setName( name:s.nextLine());
41 System.out.print("please enter your address: ");
42 customer.setAddress( address:s.nextLine());
43
44
45 Cart cart = new Cart();
46 cart.setCustomerId( customerid:customer.getCustomerId());
47 System.out.print("how many products do you want to add in your cart? ");
48 cart.setnProducts( nproducts:s.nextInt());
49 s.nextLine();
50 for (int i = 0; i < cart.getnProducts(); i++) {
51     System.out.println("which product would you like to add ?");
52     System.out.println("1. Electronic Product");
53     System.out.println("2. Clothing Product");
54     System.out.println("3. Book Product");
55     int choice = s.nextInt();
56     s.nextLine();
57     switch (choice) {
58         case 1:
59             cart.addProduct( product:electronicProduct);
60             break;
61         case 2:
62             cart.addProduct( product:clothingProduct);
63             break;
64         case 3:
65             cart.addProduct( product:bookProduct);
66             break;
67         default:
68             System.out.println("invalid choice ! ");
69     }
70 }
71
72 System.out.println("your total is : $ "+cart.calculatePrice()+" . would you like to place the order?");
73 System.out.println("1. yes");
74 System.out.println("2. no");
75 int select = s.nextInt();
76 switch (select){
77     case 1:
78         System.out.println("here's your order's summary ");
79         cart.placeOrder();
80         break;
81     case 2:
82         System.out.println("Thank you!");
83         break;
84 }
85
86 }
87
88 }
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```

Product:



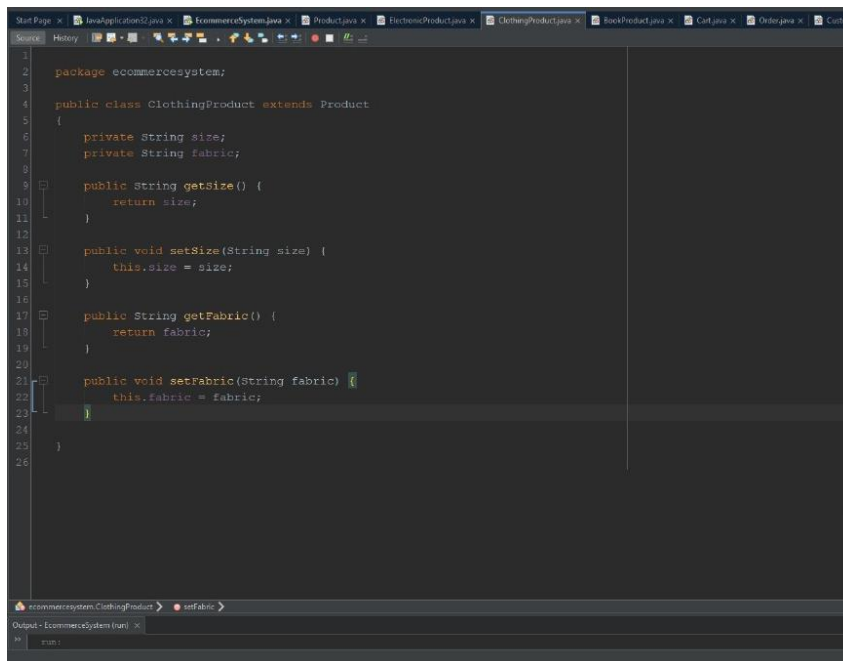
```
1 package ecommerceSystem;
2
3
4 public class Product {
5
6     protected int productId;
7     protected String name;
8     protected float price;
9
10
11     public int getProductId() {
12         return productId;
13     }
14
15     public void setProductId(int productId) {
16         this.productId = Math.abs(productId);
17     }
18
19     public String getName() {
20         return name;
21     }
22
23     public void setName(String name) {
24         this.name = name;
25     }
26
27     public float getPrice() {
28         return price;
29     }
30
31     public void setPrice(float price) {
32         this.price = Math.abs(price);
33     }
34 }
```

ElectronicProduct:



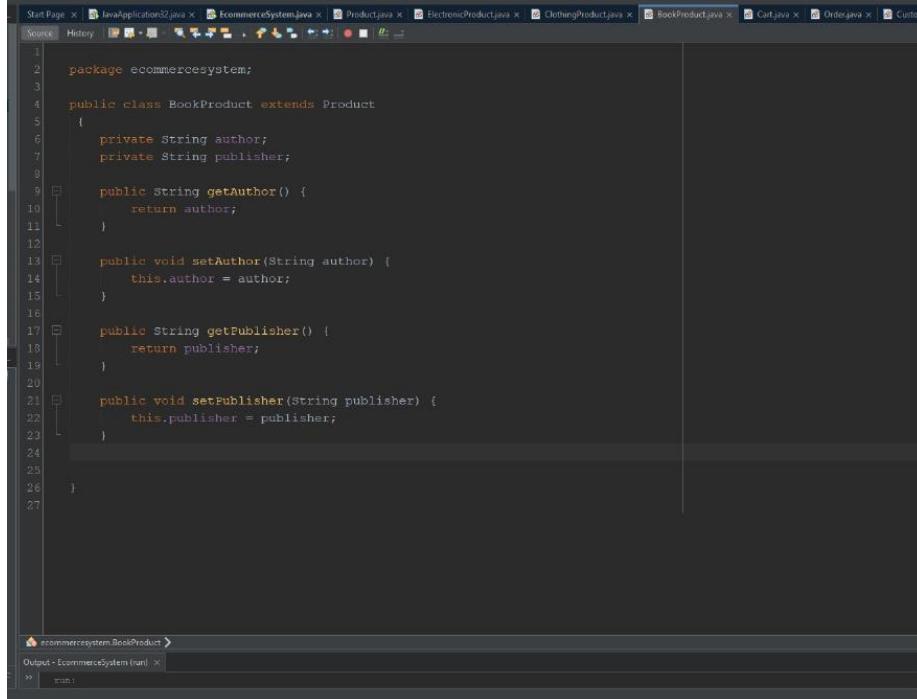
```
1 package ecommerceSystem;
2
3
4 public class ElectronicProduct extends Product {
5     private String brand;
6     private int warrantyPeriod;
7
8
9     public String getBrand() {
10         return brand;
11     }
12
13     public void setBrand(String brand) {
14         this.brand = brand;
15     }
16
17     public int getWarrantyPeriod() {
18         return warrantyPeriod;
19     }
20
21     public void setWarrantyPeriod(int warrantyPeriod) {
22         this.warrantyPeriod = Math.abs(warrantyPeriod);
23     }
24 }
25
26
```

## ClothingProduct:



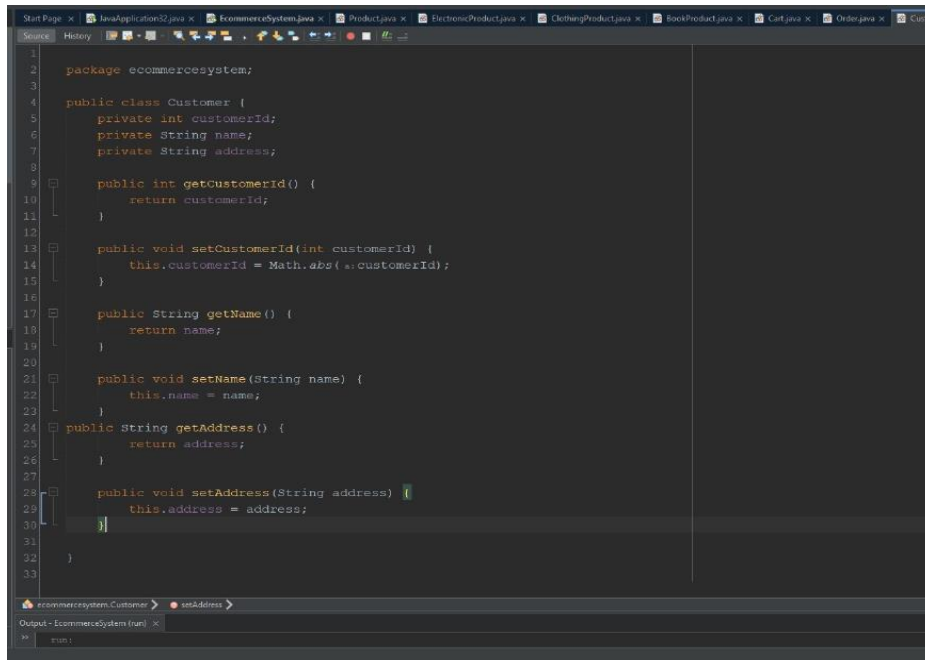
```
1 package ecommerceSystem;
2
3
4 public class ClothingProduct extends Product
5 {
6     private String size;
7     private String fabric;
8
9     public String getSize() {
10         return size;
11     }
12
13     public void setSize(String size) {
14         this.size = size;
15     }
16
17     public String getFabric() {
18         return fabric;
19     }
20
21     public void setFabric(String fabric) {
22         this.fabric = fabric;
23     }
24 }
25
26
```

## BookProduct:



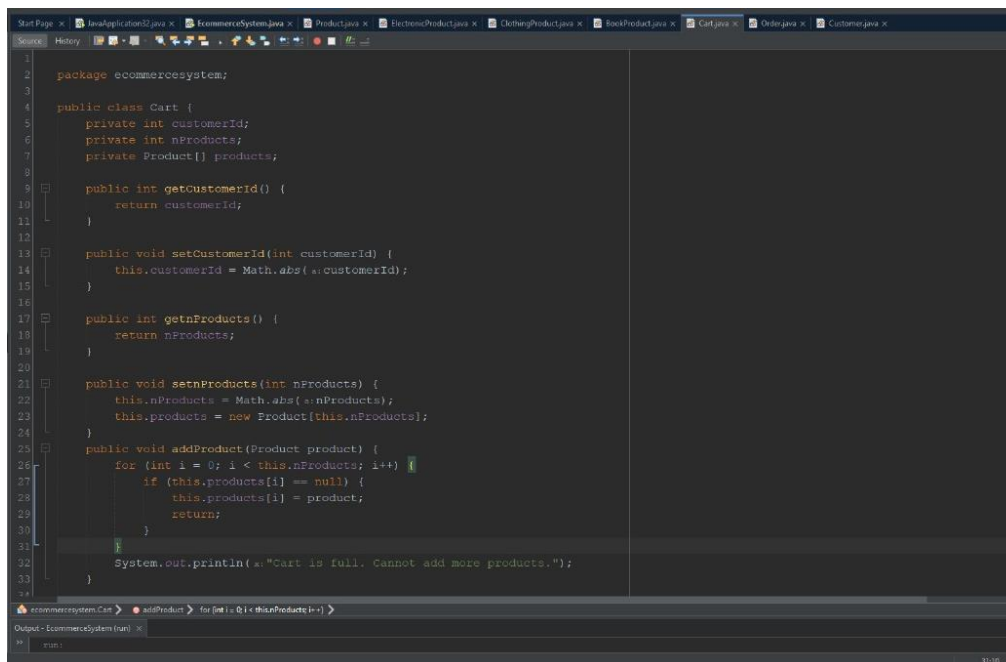
```
1 package ecommerceSystem;
2
3
4 public class BookProduct extends Product
5 {
6     private String author;
7     private String publisher;
8
9     public String getAuthor() {
10         return author;
11     }
12
13     public void setAuthor(String author) {
14         this.author = author;
15     }
16
17     public String getPublisher() {
18         return publisher;
19     }
20
21     public void setPublisher(String publisher) {
22         this.publisher = publisher;
23     }
24
25
26
27 }
```

## Customer:



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

## Cart:



```
1 package ecommerceSystem;
2
3
4 public class Cart {
5     private int customerId;
6     private int nProducts;
7     private Product[] products;
8
9     public int getCustomerId() {
10         return customerId;
11     }
12
13     public void setCustomerId(int customerId) {
14         this.customerId = Math.abs(a.customerId);
15     }
16
17     public int getnProducts() {
18         return nProducts;
19     }
20
21     public void setnProducts(int nProducts) {
22         this.nProducts = Math.abs(a.nProducts);
23         this.products = new Product[this.nProducts];
24     }
25
26     public void addProduct(Product product) {
27         for (int i = 0; i < this.nProducts; i++) {
28             if (this.products[i] == null) {
29                 this.products[i] = product;
30                 return;
31             }
32         }
33         System.out.println("Cart is full. Cannot add more products.");
34     }
35 }
```

```
Start Page x javaApplication2.java x EcommerceSystem.java x Product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Cart.java x Order.java x Customer.java x
26 for (int i = 0; i < this.nProducts; i++) {
27     if (this.products[i] == null) {
28         this.products[i] = product;
29         return;
30     }
31 }
32 System.out.println("Cart is full. Cannot add more products.");
33 }
34
35 public void removeProduct(int index) {
36     if (index >= 0 && index < this.nProducts) {
37         this.products[index] = null;
38         System.out.println("Product removed from the cart.");
39     } else {
40         System.out.println("Invalid index. Cannot remove product.");
41     }
42 }
43
44 public float calculatePrice() {
45     float totalPrice = 0.0f;
46     for (Product product : this.products) {
47         if (product != null) {
48             totalPrice += product.getPrice();
49         }
50     }
51     return totalPrice;
52 }
53
54 public void placeOrder() {
55     Order order = new Order(customerId:this.customerId, products:this.products, totalPrice:this.calculatePrice());
56     order.printOrderInfo();
57 }
58
59 }
```

ecommerceSystem.Cart > addProduct > for (int i = 0; i < this.nProducts; i++) >

Output - EcommerceSystem (run) x

run

31:16 IDE Windows (CTRL)

Order:

```
Start Page x javaApplication2.java x EcommerceSystem.java x Product.java x ElectronicProduct.java x ClothingProduct.java x BookProduct.java x Cart.java x Order.java x
Source History
1 package ecommerceSystem;
2
3
4
5 public class Order {
6     private int customerId;
7     private int orderId;
8     private Product[] products;
9     private float totalPrice;
10
11     public Order(int customerId, Product[] products, float totalPrice) {
12         this.customerId = Math.abs((int) customerId);
13         this.orderId = Math.abs(this.customerId * 1000 + (int) (Math.random() * 1000));
14         this.products = products;
15         this.totalPrice = Math.abs((float) totalPrice);
16     }
17
18     public void printOrderInfo() {
19         System.out.println("Order ID: " + this.orderId);
20         System.out.println("Customer ID: " + this.customerId);
21         System.out.println("Products:");
22         for (Product product : this.products) {
23             if (product != null) {
24                 System.out.println(product.getName() + ": $" + product.getPrice());
25             }
26         }
27         System.out.println("Total Price: $" + this.totalPrice);
28     }
29
30 }
31 }
```

ecommerceSystem.Order >

Output - EcommerceSystem (run) x

run

Output:

```
run:
please enter your id : 22010309
please enter your name: youssef alee aliely mohamed alekhamy
please enter your address: flemang
How many products do you want to add in your cart? 4
which product would you like to add ?
1. Electronic Product
2. Clothing Product
3. Book Product
2
which product would you like to add ?
1. Electronic Product
2. Clothing Product
3. Book Product
3
which product would you like to add ?
1. Electronic Product
2. Clothing Product
3. Book Product
2
which product would you like to add ?
1. Electronic Product
2. Clothing Product
3. Book Product
1
your total is : $ 679.87. would you like to place the order?
1. yes
2. no
1
here's your order's summary
Order ID: 595473846
Customer ID: 22010309
Products:
T-shirt: $19.99
OOF: $39.99
T-shirt: $19.99
smartphone: $599.9
Total Price: $679.87
BUILD SUCCESSFUL (total time: 1 minute 16 seconds)
```