# Programming | project

Name: Rudaina Aly Hassan

**TD:** 23010084

Eng: Sara Saiid

# Classes

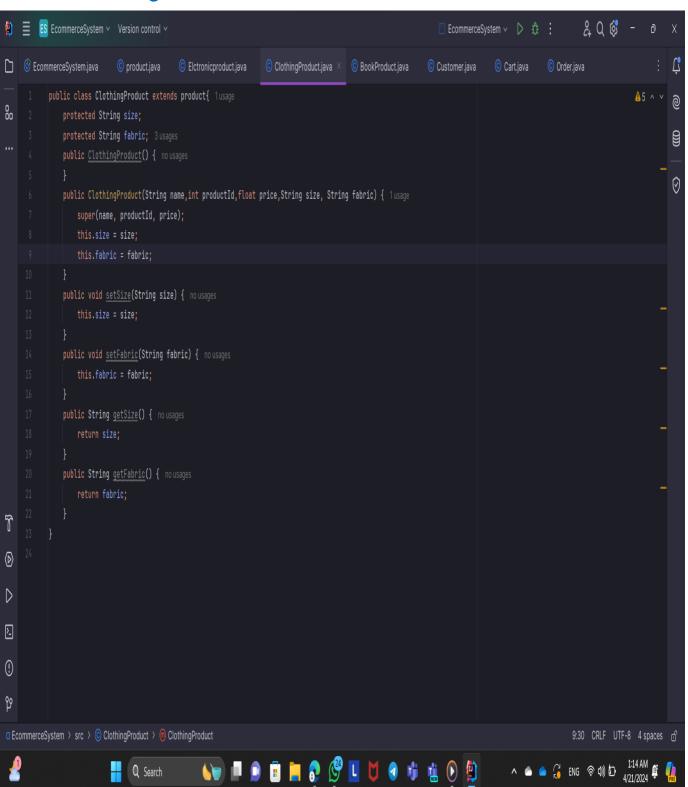
## Product class

```
a Q
ES EcommerceSystem v Version control v
                                                                                                                EcommerceSystem ∨ ▷ 🏗 🗄
© product.java × © Elctronicproduct.java
                                                                  © ClothingProduct.java
                                                                                        © BookProduct.java
                                                                                                           © Customer.java
                                                                                                                            © Cart.java
                                                                                                                                          Order.java
      1 Q public class product { 20 usages 3 inheritors
80
              protected String name;
              public product(String name,int productId, float price) { 3 usages
              this.productId =Math.abs(productId);
               this.price = Math.abs(price);
              public void setProductId(int productId) { 1usage
                  this.productId = Math.abs(productId);
              public void setName(String name){    no usages
              public void setPrice(float price){  no usages
                  this.price = Math.abs(price);
              public int getProductId(){    no usages
(
              public String getName(){ 1usage
D
2
              public float getPrice(){ 2 usages
①
□ EcommerceSystem > src > © product > m setProductId
                                                                                                                                               13:46 CRLF
                                                  📂 🖿 🗅 🗓 📮 🗞 🗞 🖪 🛕 🐧 🛊 👨 👸
                                Q Search
```

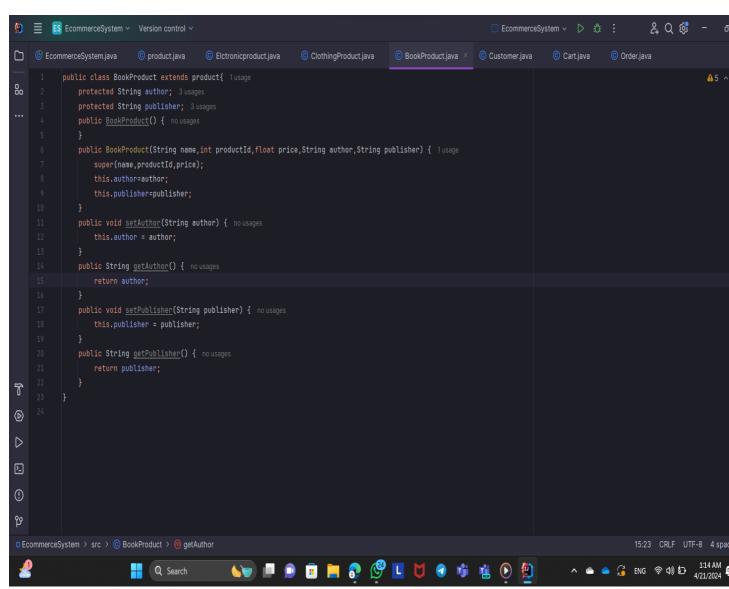
## Electronic product

```
ES EcommerceSystem ∨ Version control ∨
                           © product.java © Elctronicproduct.java × © ClothingProduct.java
☐ © EcommerceSystem.java
                                                                                      © BookProduct.java
                                                                                                         © Customer.java © Cart.java © Order.java
           public class Elctronicproduct extends product { 1usage
           protected String brand; 3 usages
           protected int warrantyPeriod; 3 usages
           public Elctronicproduct() {  no usages
           public Elctronicproduct(String name,int productId,float price,String brand,int warrantyPeriod) { 1usage
               super(name,productId,price);
              this.brand=brand;
              this.warrantyPeriod=warrantyPeriod;
           public void setbrand(String brand) { no usages
              this.brand = brand;
           public void setwarrantyPeriod(int warrantyPeriod) { no usages
                  this.warrantyPeriod=Math.abs(warrantyPeriod);
           public String getbrand() { no usages
0
①
ဗ္
□ EcommerceSystem > src > © Elctronicproduct > @ Elctronicproduct
                                                                                                                                             4:28 CRLF UTF-8 4 spaces
                                                 へ 📤 🥚 🔓 ENG 🦃 句)) 🖆 🔒 4/21/2024
                               Q Search
```

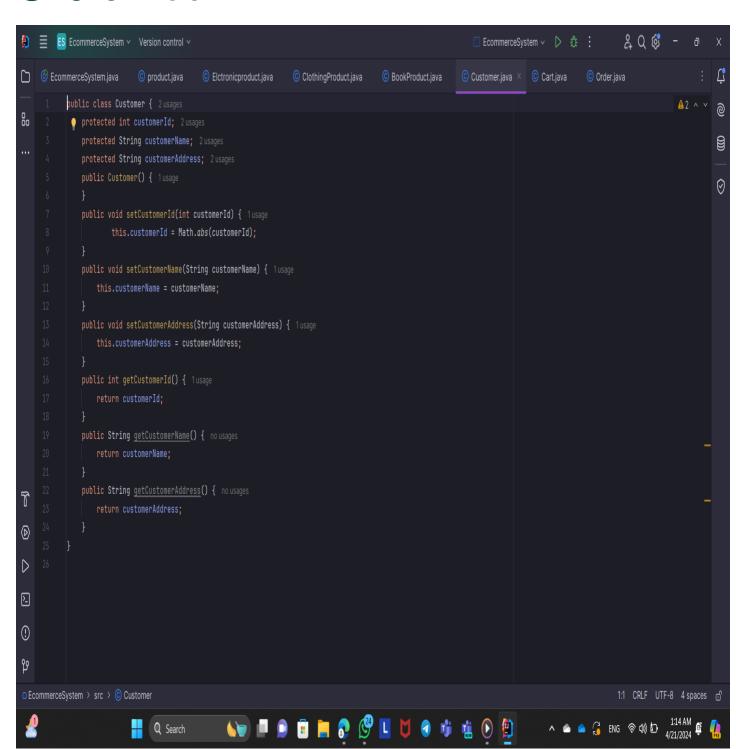
# Clothing product



# Book product



### Customer



#### Cart

```
ဥ Q & -
ES EcommerceSystem v Version control v
                                                                                                               EcommerceSystem ∨ ▷ ‡ :
                                           © Elctronicproduct.java
                                                                                                          © Customer.java © Cart.java × © Order.java
☐ © EcommerceSystem.java
                                                                 © ClothingProduct.java
                                                                                      © BookProduct.java
           public class Cart{ 2 usages
                                                                                                                                                          46 ½17 ^ ∨
00
              protected int nproduct; 4 usages
              public Cart() { 1usage
              public Cart(int customerid, int nproduct, product[] products) { no usages
                  this.customerid =Math.abs(customerid);
                  this.nproduct = Math.abs(nproduct);
                  this.products = new product[this.nproduct];
              public void setCustomerid(int customerid) { 1usage
                      this.customerid = Math.abs(customerid);
              public int getCustomerid() { no usages
                  return customerid;
              public void setNproduct(int nproduct) { 1usage
                      this.nproduct = Math.abs(nproduct);
                  return nproduct;
              public void setProducts(product[] products) { 1usage
2
                  this.products = products;
0
              public product[] getProducts() { 1usage
□ EcommerceSystem > src > © Cart > m placeorder
                                                                                                                                             56:59 CRLF UTF-8 4 spaces
                                                 Q Search
```

```
ES EcommerceSystem < Version control </p>
                                                                   © ClothingProduct.java
80
           public void removeproduct(product product) { no usages
               if(this.products[i]==null &&this.products[i].equals(product)){
℗
                      if (product!=null){
\triangleright
T
                   Н
              if (replace==1){
                  System.out.println("Here's your orders's summary");
                  } else if (replace==2) {
(
D
2
0
ဗို
\square EcommerceSystem \rightarrow src \rightarrow \bigcirc Cart \rightarrow \bigcirc calculateprice
                                                                                                                                             55:10 CRLF U
```

### Order

```
<u></u> 유 Q @
80
             this.products=products:
        (D)
            return Math.abs(customerId);
                                  👀 💷 🙉 🕫 🧮 📀 🤔 🗓 💆 🧿 🐞 強 🕑 👰
 *
                   Q Search
                                                                                         へ 📤 🥌 🍒 ENG < 切り 🗁
 public Object printOrderInfo(){ 1usage
        System.out.println("Order ID: "+orderId);
        System.out.println("Products:");
        for(product product:products){
           System.out.println("-"+product.getName()+"-"+product.getPrice()+"$");
        System.out.println("Total Price: "+totalPrice+"$");
eSystem > src > © Order > @ printOrderInfo
```

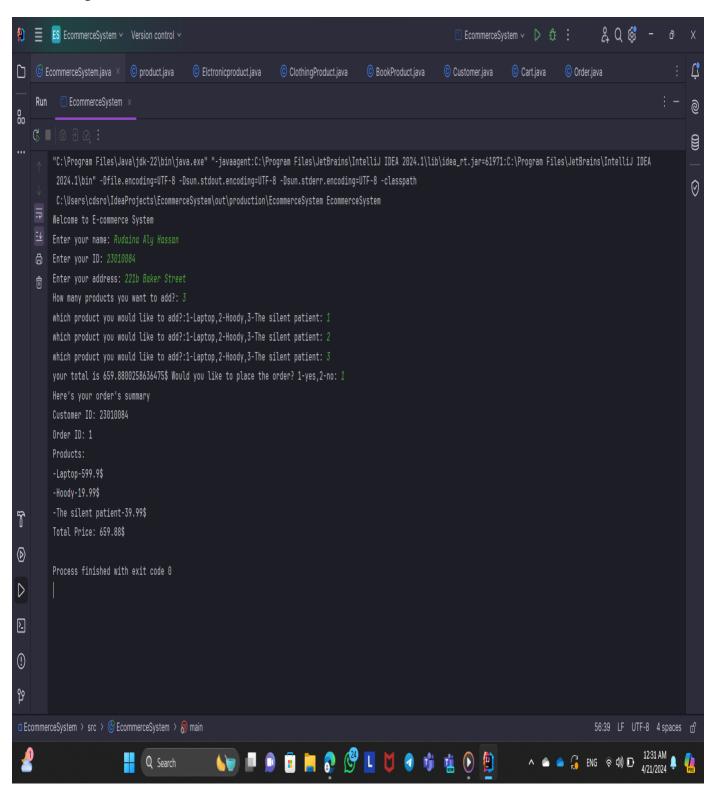
# E-commerce system(main)

```
유 Q 🔞 -
EcommerceSystem ∨ ▷ ₺
    © EcommerceSystem.java ×
                             © product.java
                                             © Elctronicproduct.java
                                                                    © ClothingProduct.java
                                                                                          © BookProduct.iava
                                                                                                               © Customer.java
                                                                                                                                © Cart.java
                                                                                                                                              Order.java
00
           import java.util.Scanner;
      3 D public class EcommerceSystem {
               public static void main(String[] args) {
                   Scanner s = new Scanner(System.in);
                   System.out.println("Welcome to E-commerce System ");
                   product p = new product();
     System.out.print("Enter your name: ");
                   String name = s.next();
                   cus.setCustomerName(name);
                   s.nextLine();
                   System.out.print("Enter your ID: ");
                   int customerID = s.nextInt();
                   cus.setCustomerId(customerID);
                   System.out.print("Enter your address: ");
                  String customerAddress = s.next();
                   s.nextLine();
                   cus.setCustomerAddress(customerAddress);
                   Cart cart = new Cart();
                   cart.setCustomerid(customerID);
                   System.out.print("How many products you want to add?: ");
                   int nproduct = s.nextInt();
(
                   cart.setNproduct(nproduct);
                   product[] products = new product[nproduct];
                   for (int \underline{i} = 0; \underline{i} < \text{nproduct}; \underline{i} + +) {
2
                      System.out.print("which product you would like to add?:1-Laptop,2-Hoody,3-The silent patient: ");
                      int productID = s.nextInt();
()
                      if (productID == 1) {
                          products[i] = new Elctronicproduct( name: "Laptop", productid: 1, price: 599.9F, brand: "Lenovo", warrantyPeriod: 1);
                      } else if (productID == 2) {
□ EcommerceSystem > src > ⓒ EcommerceSystem > ⋒ main
                                                                                                                                                      24:36 LF UTF-8 4 s
                                                   ^ ♠ ♠ ☐ ENG ♠ ♠ ♠ ♠ 12:39 AN
                                 Q Search
```

```
Electronecockystem v Version control v

| SecommerceSystem | ye | Production | Prod
```

## Output



# Test case

#### Electronic product

Name: laptop

Price: 599.9\$

Product 10; 1

Brand: Lenovo

Warranty period: 1

#### Clothing product

Name: Hoody

Price: 19.9\$

Product ID:2

Size: medium

Fabric: cotton

#### Book product

Name: The silent patient

Price: 39.9\$

Product Id: 3

Author: Alex Michaelides

Publisher: Celadon Books

### Githup link

RudainaAly54/E\_commerce-System (github.com)