```
AmrAssignment/src/CLOTHINGPRODUCT.java
 1 public class order {
       public int customerId;
       public int orderId;
       public order(int customerId, int orderId, product []products2, float totalprice) {
 40
           this.customerId=Math.abs(customerId);
           this.orderId=Math.abs(orderId);
           this.products2=products2;
           this.totalprice=Math.abs(totalprice);
 90
        }private product []products2;public void printOrderInfo() {
10
            System.out.println("Customer ID: " + customerId);
11
           System.out.println("Order ID: " + orderId);
12
           System. out. println ("Products: ");
13
           for(int i =0; i< products2.length;i++) {</pre>
14
                if (products2[i]!=null) {
15
                    System.out.println(" "+ products2[i].getname()+ "$"+products2[i].getprice());
16
                11
17
           System.out.println("Total price : "+(float)totalprice+"$");
18
        }public float totalprice;}
19
```



```
public class product {
       public int productId;
       public String name;
       public float price; public int getproductID() {
40
           return productId;
60
       }public String getname() {
           return name;
       }public float getprice() {
80
90
           return price; } public void setproductID (int productId) {
           this.productId=Math.abs(productId); }public void setname(String name) {
100
11
           this.name=name; }
120
       public void setprice (float price) {
13
           this.price=Math.abs(price);}
       public product (int productId, String name, double d) {
140
           this.productId=Math.abs(productId);
           this.name=name;
           this.price=(float) Math.abs(d);
18
19
20
```



```
oublic class CART {
 public int customerID;
 public static int nproducts;
 private static product []products;
opublic int getcustomerID() (
     return customerID; }public int getnproducts() {
     return nproducts;}
opublic product[] getproducts() {
     return products; }public void setcustomerID(int customerID) {
     this.customerID= Math.abs(customerID);)
l⊕public CART(int customerID, int nproducts) (
     this.customerID = Math.abs(customerID);
     this.nproducts = Math.abs(nproducts);
     this.products = new product[nproducts];
opublic void setnproducts(int nproducts) {
     this.nproducts = Math.abs(nproducts);
     products = new product[nproducts];}
public static void addproduct (product product11, int index) (
     if (index >= 0 && index < nproducts) {
         products[index]=product11;
         System.out.println("you cant add product here");
opublic static float calcprice() {
     float totalprice = 0;
     for(int i=0;i < nproducts;i++) (
         if (products[i] |=null) {
             totalprice+=products[i].getprice();
     return totalprice;
(●)public void removeproduct(int index) {
     if ( index >= 0 && index<nproducts) {
         products[index]=null;
         System.out.println("there is no product to remove. ");
lopublic void placeorder() {
     System.out.println("your order is placed, and being shipped already!");
```



```
public String size;

public String fabric:public String getsize() (

return size;

public String getfabric() (

return fabric;

public CLOTHINGPRODUCT (String name, int productID, double d, String size, String fabric) (

super(productID, name, d);

this.size=size;

this.fabric=fabric;

public void setsize(String size) (

this.size= size;

public void setsize(String fabric) (

this.size= size;

public void setfabric(String fabric) (

this.fabric=fabric;

)

public void setfabric(String fabric) (

this.fabric=fabric;
```



```
author;
public
              publisher;
             getauthor() {
public
      return author;
  public String getpublisher() {
      return publisher;
 public void setauthor (String author) {
     this.author= author;
 public void setpublisher (String
                                 publisher) (
     this.publisher=publisher;
                           name, int productID, double d, Strin
 public BOOKPRODUCT (String
                                                                 author, String publisher) (
        super (productID, name, d);
        this.author=author;
        this.publisher=publisher;
```



```
public class #LECTRONICPRODUCT extends product (
    public String brand;
    public String getbrand() {
        return brand;
    public ELECTRONICPRODUCT(String name,int productID, double d, String brand,int warrantyPeriod) {
        super(productID, name,d);
        this.brand=brand;
        this.warrantyPeriod=warrantyPeriod;)
    public int warrantyPeriod;
    public int getwarrantyPeriod() {
        return warrantyPeriod;}
    public void setbrand(String brand) (
        this.brand= brand;}
    public void setbrantyPeriod(int warrantyPeriod) {
        this.warrantyPeriod=warrantyPeriod;
    }
}
```



```
public static void main(String[] args) {
         ELECTRONIC PRODUCT electronic = new BLECTRONIC PRODUCT ("Smartphone", 1, 599.99, "Samsung", 1);
         CLOTHINGPRODUCT clothing= new CLOTHINGPRODUCT ("tshirt", 2, 19.99, "medium", "Cotton");
         BOOKPRODUCT book = new BOOKPRODUCT ("Object oriented programming", 3, 39.99, "O'reilly", "X publicatoions");
  Scanner input= new Scanner (System.in);
  System. out. println ("Please Enter your ID: ");
  int customerID = input.nextInt();
  System.out.println("Please Enter your name: ");
  String custname=input.next();
  System.out.println("Enter your address:");
  String address=input.next();
  CUSTOMER cust1 = new CUSTOMER(customerID, custname, address);
  System.out.println("How many products you want to add to your cart?");
  int nproducts=input.nextInt();
  CART cart1= new CART(cust1.getcustomerID(),nproducts);
  for ( int i = 0 ; i<nproducts ;i++) {
      System.out.println("Which product would you like to add? 1- Smartphone 2- T-shirt 3-Book");
      int choice = input.nextInt();
      switch (choice) {
          CART.addproduct(new ELECTRONICPRODUCT("Smartphone", 1, 599.9, "Samsung", 1), i);
          break:
          CART.addproduct( new CLOTHINGPRODUCT("tshirt", 2, 19, 99, "medium", "Cotton"), i);
          break;
          CART.addproduct(new BOOKPRODUCT("OOP", 3, 39.99, "BOOK", "X publicatoions"), i);
      default :
          System.out.println("invalid input, please choose 1 or 2 or 3 ");
  float totalprice = CART.calcprice();
  System.out.println("Your total is "+(float)totalprice+"$.");
  System.out.println("Would you like to place order ? 1- Yes, 2-No");
  int choicetoplace=input.nextInt();
  if (choicetoplace ==1) {
      order order1 = new order (cust1.getcustomerID(), 1, cart1.getproducts(), totalprice);
      System.out.println("Here is your order's summary: ");
      order1.printOrderInfo();
      System.out.println("order not placed");
```



```
DUDITE CLASS COSTOMER
 2 public int customerID;
 3 public String custname;
 4 public String address;
 5 public int getcustomerID() {
       return customerID:
 7 }public String getcustname() {
       return custname;
 9● }public void setcustomerID(int customerID) {
       this.customerID= Math.abs(customerID);
10
110 } public String getaddress() {
12
       return address:
130 } public void setcustname (String custname) {
       this.custname= custname;
15 public CUSTOMER (int customerID , String custname , String address) {
       this.customerID=Math.abs(customerID);
16
17
       this.custname=custname;
18
       this.address=address;
19+ }public void setaddress(String address) {
20
       this.address= address;
21 }}
22
```



```
terminated > ECOMMERCESYSTEM [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (Apr 23, 2024, 12:03:05 AM = 12:03:3
Please Enter your ID:
23012126
Please Enter your name:
AmrKhalidAbdelaziz
Enter your address:
address
How many products you want to add to your cart?
Which product would you like to add? 1- Smartphone 2- T-shirt 3-Book
Which product would you like to add? 1- Smartphone 2- T-shirt 3-Book
Which product would you like to add? 1- Smartphone 2- T-shirt 3-Book
Which product would you like to add? 1- Smartphone 2- T-shirt 3-Book
Your total is 679.87$.
Would you like to place order ? 1- Yes, 2-No
Here is your order's summary:
Customer ID: 23012126
Order ID: 1
Products:
tshirt$19.99
OOP$39.99
tshirt$19.99
Smartphone$599.9
Total price : 679.87$
```

