e-commerce project

1)class Main

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                 for (int i = 0; i < nproduct; i++) {
                     int Array = Integer.parseInt(JOptionPane.showInputDialog("Which product would you like to add?\nl.smartphone\n2.T-Shirt\n3.cop"));
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                     switch (Array) [
                             X.addProduct(E);
                             X.addProduct(C);
                            X.addProduct(B);
                             JOptionPane.showMessageDialog(null, "invalid choice!");
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                 JOptionPane.showMessageDialog(null, "your total is: " + X.calculatePrice() + "$.");
                X.placeOrder(n);
                 // Displaying order information or cart status based on user input if (n == 1) (
                     Order O = new Order(X);
                 } else if (n == 2) {
                    JOptionPane.showMessageDialog(null, "cart is now empty");
                 l else (
                     JOptionPane.showMessageDialog(null, "invalid input");
```

2)class Order

```
class Order {
    private int customerid;
    private int customerid;
    private int customerid;
    private int customerid;
    private float totalprice;
    private int nproduct;
    static int number;

    // Constructor for Order class
    public Order(Cart c) {
        number++;
        this.customerid = c.getCustomerid();
        this.totalprice = c.calculatePrice();
        }

        // Method to print order information
        public void printOrderInfo() {
            System.out.println("Bustomerid: " + orderin);
            System.out.println("Customerid: " + orderin);
            System.out.println("Customerid: " + orderin);
            System.out.println("Customerid: " + articligetName());
            System.out.println("Name: " + art[i].getName());
            System.out.println("Name: " + art[i].getName());
            System.out.println("Price: " + art[i].getPrice());
            }
            System.out.println("Total price: " + totalprice);
            }
            System.out.println("Total price: " + totalprice);
            }
            System.out.println("Total price: " + totalprice);
            }
}
```

3)class Cart

```
class Cart {
    private int customerid;
    private int product;
    protected Product[] arr;

    // Getter for the array of products in the cart
    public Product[] getArr() {
        return arr;
    }

    // Setter for the array of products in the cart
    public void setArr(Product[] arr) {
        this.arr = new Product[nproduct];
    }

    // Getter for customer ID
    public int getCustomerid() {
        return customerid;
    }

    // Setter for customer ID
    public void setCustomerid(int customerid) {
        this.arccomerid = customerid;
    }

    // Getter for number of products in the cart
    public int getCustomerid() {
        return nproduct;
    }

    // Setter for number of products in the cart
    public int getNproduct() {
        return nproduct;
    }

    // Setter for number of products in the cart
    public void setNproduct() {
        return nproduct;
    }

    // Setter for number of products in the cart
    public void setNproduct(int nproduct) {
        this.mproduct = Math.abs(nproduct);
        arr = new Product[this.nproduct);
        arr = new Product[this.nproduct);
    }
}
```

```
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               return total;
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165
           public void placeOrder(int choice) {
166
167
               switch (choice) {
168
169
                       System.out.println("Order placed successfully.");
170
171
172
173
174
175
                       System.out.println("Cart is now empty.");
176
177
178
                       System.out.println("Invalid input.");
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```

4) class Product

```
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  0
       class Product {
184
           protected int productid;
185
           protected String name;
186
187
188
189
           public int getProductid() {
190
191
192
193
           public void setProductid(int productid) {
194
               this.productid = Math.abs(productid);
195
196
197
           public String getName() {
198
199
200
201
           public void setName(String name) {
202
203
204
205
           public float getPrice() {
206
207
208
209
           public void setPrice(float price) {
210
               this.price = Math.abs(price);
211
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```

5) class Electronic Product

```
214
       class ElectronicProduct extends Product {
215
           protected String brand;
218
219
           public ElectronicProduct(String brand, int productId, int warrantyPeriod, String name, float price) {
               this.setProductid (productId);
  Q.
               this.setWarrantyperiod(warrantyPeriod);
  Q.
               this.setName(name);
  Q.
               this.setPrice(price);
           public String getBrand() {
230
231
232
           public void setBrand(String brand) {
233
236
           public int getWarrantyperiod() {
237
239
           public void setWarrantyperiod(int warrantyperiod) {
               this.warrantyperiod = Math.abs(warrantyperiod);
```

6) class ClothingProduct

```
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      class ClothingProduct extends Product {
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          protected String fabric;
249
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           public ClothingProduct(String size, String fabric, int productId, String name, float price) {
               this.size = size;
this.fabric = fabric;
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               this.setProductid(productId);
               this.setName(name);
               this.setPrice(price);
259
           public String getSize() {
261
262
           public void setSize(String size) {
264
265
           public String getFabric() {
268
271
           public void setFabric(String fabric) {
```

7) class BookProduct

```
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                                  class BookProduct extends Product {
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                                                 protected String author;
278
                                                   protected String publisher;
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                                                   public BookProduct(String author, String publisher, int productId, String name, float price) {
                                                                      this.setProductid(productId);
         Q,
          Q
                                                                     this.setName(name);
                                                                     this.setPrice(price);
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                                                  public String getAuthor() {
291
                                                   public void setAuthor(String author) {
295
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                                                   public String getPublisher() {
299
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                                                    public void setPublisher(String publisher) {
304
```

8) class Customer

```
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           class Customer {
    private int customer:
    private String name;
    private String addre
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                 // Constructor for Customer class
public Customer(int id, String name, String add) {
   this.setCustomerid(id);
                        this.setName(name);
this.setAddress(add);
317
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                 // Getters and setters for customer attributes
public int getCustomerid() {
320
321
322
323
                 public void setCustomerid(int customerid) {
   this.customerid = Math.abs(customerid);
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                  public String getAddress() {
338
                  public void setAddress(String address) {
```