```
package com.mycompany.ecommerce_system;
6 import javax.swing.JOptionPane;
     public class Ecommerce System (
         public static void main(String[] args) (
             int customerId= Integer.parseInt(s: JOptionPane.showInputDialog(message: "please enter your id:"));
               String address=JOptionPane.showInputDialog(message: "please enter your address:");
W
                Customer Customer(customerId, name, address);
               System.out.println(m nProducts);
              Cart c2=new Cart (customerId, nProducts);
                    for (int i=0; i<nProducts; i++) (
                      int producttype= Integer.parseInt(s: JOptionPane.showInputDialog("which product would you like to add ?"
                               +"1-"+e1.getName() +" 2-"+c1.getName()+" 3-"+p1.getName()));
Q.
                         c2.addProduct(p: e1, index: i);
```

```
switch (producttype) (
                           c2.addProduct(p: e1, index: i);
                             c2.addProduct(p: c1, index: i);
                            c2.addProduct(p: p1,index: i);
                                 JOptionPane.showMessageDialog(parentComponent: null, message: "Invalid product type. Skipping...");
                   int num= Integer.parseInt(s: JOptionPane.showInputDialog("would you like to place the order?"+"1- yes 2- no"));
9
                 witch (num) (
                         c2.placeOrder();
                      JOptionPane.showMessageDialog(parentComponent: null, message: "Order not placed.");
```

```
public class ElectronicProduct extends Product (
private String brand;
    public ElectronicProduct(int productId, String name, Float price, String bran
        super ( productId, name , price);
        this.brand = brand;
        this.warrantyPeriod = warrantyPeriod;
    public String getBrand() {
    public void setBrand(String brand) (
        this.brand = brand;
    public int getWarrantyPeriod() (
    public void setWarrantyPeriod(int warrantyPeriod) (
        this.warrantyPeriod = Math.abs(a: warrantyPeriod);
```

```
package com.mycompany.ecommerce system;
public class BookProduct extends Product (
   private String author;
   private String publisher;
     public String getAuthor() {
  public BookProduct(String author, String publisher, int productId, String name, Float price) {
        super(productId, name, price);
        this.author = author;
        this.publisher = publisher;
    public void setAuthor(String author) {
        this.author = author;
    public String getPublisher() (
    public void setPublisher(String publisher) {
        this.publisher = publisher;
```

```
package com.mycompany.ecommerce system;
public class ClothingProduct extends Product (
  private String size;
  private String fabric;
    public String getSize() {
    public ClothingProduct(String size, String fabric, int productId, String name, Float price) (
        super (productId, name, price);
        this.size = size;
        this.fabric = fabric;
    public void setSize(String size) {
        this.size = size;
    public String getFabric() (
    public void setFabric(String fabric) {
        this.fabric = fabric;
```

```
🖻 Cartjava 🗴 📴 Ecommerce_System.java 🗴 🙆 Order.java 🗴 🙆 Customer.java 🗴 🙆 Product.java 🗴 🙆 ClothingProduct.java 🗴
 package com.mycompany.ecommerce system;
 public class Cart {
      private int customerId;
         this.customerId = Math.abs(a: customerId);
         this.nProducts = Math.abs(a: nProducts);
         this.products = new Product[nProducts];
     public int getCustomerId() {
     public void setCustomerId(int customerId) (
         this.customerId = customerId;
     public int getnProducts() {
     public void setnProducts(int nProducts) {
         this.nProducts =nProducts;
     public Product[] getProducts() (
     public void setProducts(Product[] products) (
```

```
public void setProducts(Product[] products) {
    this.products = products;
  public void addProduct(Product p, int index) {
      if (index>=0 && index< products.length) (
          this.products[index]=p;
          System.out.println(x: "out of bounds");
   public void removeProduct(int index) {
    if (index >= 0 && index < nProducts) (
        products[index] = null;
        System.out.println(x: "Invalid index for removing product from cart.");
    public float calculatePrice() {
    float totalPrice = 0;
   for (int i=0;iiproducts.length;i++) {
     totalPrice += products[i].getPrice();
    return totalPrice;
     public void placeOrder() (
    System.out.println(x: "Here's your order's summary:");
```

```
...a1 🙆 Cart.java 🗙 🍱 Ecommerce_System.java 🗙 🙆 Order.java 🗙 🚨 Customer.java 🗙 🙆 Product.java 🗙 🙆 ClothingProduct.java 🗙 🙆 ElectronicPr
11 import javax.swing.JOptionPane;
     public class Order (
           Product[] products;
         public Order(int customerId, int orderId, int nproduct) {
              this.customerId = Math.abs(a: customerId);
              this.orderId = Math.abs(a: orderId);
              this.products = new Product[nproduct];
         public int getCustomerId() {
         public void setCustomerId(int customerId) (
              this.customerId =customerId;
         public int getOrderId() {
         public void setOrderId(int orderId) (
              this.orderId = orderId;
         public Product[] getProducts() {
         public void setProducts(Product[] products) {
              this.products = products;
```

```
...a1 🗟 Cart.java 🗙 🥦 Ecommerce_System.java 🗙 🙆 Order.java 🗙 🙆 Customer.java 🗙 🙆 Product.java 🗴 🗟 ClothingProduct.java 🗙 💆 ElectronicProduct.java
          public float getTotalPrice() (
          public void setTotalPrice(float totalPrice) (
            private double calculateTotalPrice() (
9
                       totalPrice += products[i].getPrice();
            public void printOrderInfo() (
                JOptionPane.showMessageDialog(parentComponent: null, "Order ID: " + orderId);
                 JOptionPane.showMessageDialog(parentComponent: null, "Customer ID: " +getCustomerId());
                  JOptionPane.showMessageDialog(parentComponent: null,message: "Products:");
Q.
               JOptionPane.showMessageDialog(parentComponent: null, "Total price: "+this.calculateTotalPrice());
```

## Message





## welcom to the E\_commerse system







## please enter your id:

23011588

OK





### please enter your name:

nermeen

OK





## please enter your address:

alex

OK





How many products you want to add to your cart?

2

OK

## which product would you like to add ?1-smartphone 2-T-shirt 3-OOP

# which product would you like to add ?1-smartphone 2-T-shirt 3-OOP OK Cancel





would you like to place the order?1- yes 2- no

1

OK

## Message





## Customer ID: 23011588



### /lessage





- smartphone, \$599.9





## - OOP, \$39.99





## Total price:639.8900146484375



```
...a1 🗟 Cart.java 🗙 💁 Ecommerce_System.java 🗙 🙆 Order.java 🗙 🥝 Customer.java 🗴 🙆 Product.java 🗴 🥳 ClothingProduct.java 🗙 🙆 Elec
      History III -
        private String name;
           public Customer(int customerId, String name, String address) {
             this.customerId = customerId;
             this.name = name;
             this.address = address;
         public int getCustomerId() {
         public void setCustomerId(int customerId) (
             this.customerId = Math.abs(a: customerId);
         public String getName() (
         public void setName(String name) (
         public String getAddress() (
         public void setAddress(String address) (
             this.address = address;
```