```
ut - Run (EcommerceSystem) X
  welcome to E Commerce System!
  please enter you ID:
  23012132
  please enter your name:
  Maryam Ibrahim Mahmoud
  please enter your address:
  Smouha
  How many products do you want to order?
  which product would you like to add?
   1-Smartphone, 2-T-Shirt, 3-00P
  which product would you like to add?
   1-Smartphone, 2-T-Shirt, 3-00P
  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, 3-00P
  you're total is1259.78$
   would you like to place an order? 1-yes, 2-no, any other number to end shopping
  Do you want to delete an item in your cart?
  1-yes, 2- no
  please enter the product you want to delete:
  1-Smartphone, 2-T-Shirt, 3-00P
  Do you want to add another product?
  1-yes, 2-no
  which product would you like to add?
  1-Smartphone, 2-T-Shirt, 3-OOP
  you're total is699.87$
   would you like to place an order? 1-yes, 2-no, any other number to end shopping
  here's your order summary
  Order Id: 1
  Customer Id: 23012132
  products details:
   Product name=Smartphone, price=599.9$
   Product name=T-shirt, price=19.99$
   Product name=oop, price=39.99$
   Product name=oop, price=39.99$
  Total order price: 699.87$
  delivery info:
  Name: Maryam Ibrahim Mahmoud
  Address: Smouha
```

```
Class Product {
   private int productId;
   private float price;
   private String name;
   public int getProductId() {
       return productId;
   public void setProductId(int productId) {
        this.productId = Math.abs(productId);
   public float getPrice() {
       return price;
   public void setPrice(float price) {
        this.price = Math.abs(price);
   public String getName() {
       return name;
   public void setName(String name) {
        this.name = name;
   public Product() {
   public Product (int productId, float price, String name) {
       this.productId = Math.abs(productId);
        this.price = Math.abs(price);
        this.name = name;
   @Override
   public String toString() {
        return " Product name=" + name + ", price=" + price +"$";
```

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

```
class ClothingProduct extends Product{
    private String size;
    private String fabric;
    public String getSize() {
        return size;
    public void setSize(String size) {
        this.size = size;
    public String getFabric() {
        return fabric;
    public void setFabric(String fabric) {
        this.fabric = fabric;
    public ClothingProduct(String size, String fabric) {
        this.size = size;
        this.fabric = fabric;
    public ClothingProduct(String size, String fabric, int productId, float price, String name) {
        super(productId, price, name);
        this.size = size;
        this.fabric = fabric;
```

```
class BookProduct extends Product{
   private String author;
   private String publisher;
   public String getAuthor() {
   public void setAuthor(String author) {
        this.author = author;
    public String getPublisher() {
        return publisher;
   public void setPublisher(String publisher) {
        this.publisher = publisher;
   public BookProduct(String author, String publisher) {
        this.author = author;
        this.publisher = publisher;
   public BookProduct(String author, String publisher, int productId, float price, String name) {
        super(productId, price, name);
        this.author = author;
        this.publisher = publisher;
```

```
class customerId{
    private int customerId;
    public int getCustomerId() {
        return customerId;
    public void setCustomerId(int customerId) {
        this.customerId = Math.abs(customerId);
    public customerId() {
    public customerId(int costumerId) {
        this.customerId = Math.abs(customerId);
```

```
lass customer extends customerId{
  private String name;
  private String address;
   public String getName() {
       return name;
   public void setName(String name) {
       this.name = name;
   public String getAddress() {
       return address;
   public void setAddress(String address) {
       this.address = address;
   public customer() {
   public customer(String name, String address, int customerId) {
       super (customerId);
       this.name = name;
       this.address = address;
```

```
class cart extends customerId{
    private int nProducts;
    private Product [] products;
    private int counter;
    public cart() {
        counter=0;
    public cart( int customerId, int nProducts) {
        super (customerId);
        this.nProducts=Math.abs(nProducts);
        this.products=new Product[this.nProducts];
        counter=0;
    public int getnProducts() {
        return nProducts;
    public void setnProducts(int nProducts) {
        this.nProducts = Math.abs(nProducts);
    public void setProducts(Product[] products) {
        this.products = products;
    public Product[] getProducts() {
        return products;
   public void addProduct(Product product) {
        if(counter<nProducts){</pre>
            products[counter] = product;
            counter ++;
        }else
            System.out.println("cart is full");
```

```
public Product[] addProduct2(Product[]products, Product product) {
    Product [] products2=new Product[products.length+1];
    int i;
    for(i=0;iioducts.length;i++){
        products2[i]=products[i];
       products2[i]=product;
       setProducts(products2);
       setnProducts(products2.length);
    return getProducts();
if (products == null || products.length == 0) {
       return products;
   }else{
   Product [] products2=new Product[products.length-1];
   int j=0;
   boolean found=false;
   for(int i=0;i<products.length;i++) {
       if (!found&&products[i] == product) {
           found=true;
       }else{
           products2[j]=products[i];
          j++;
   setProducts(products2);
   setnProducts(products2.length);
   return products2;
```

```
public boolean inTheOrder(Product product) {
    for(Product i:products){
        if(i!=null && i.getName().equals(product.getName()) && i.getProductId()==product.getProductId())
            return true;
    return false;
public float calculateprice() {
    float sum =0;
    for(Product i:products) {
        if(i!=null)
       sum+= i.getPrice();
    return sum;
public Order placeOrder(int oId , int customerId) {
    Order order=new Order(old, products, customerId);
    return order;
```

```
class Order extends cart{
    private int orderId;
    private float totalPrice;
    public Order() {
    public Order(int orderId, Product[]products, int customerId) {
        super.setCustomerId(customerId);
        this.orderId = orderId;
        super.setProducts(products);
    public int getOrderId() {
        return orderId;
    public void setOrderId(int orderId) {
        this.orderId = orderId;
    public float getTotalPrice() {
        return totalPrice;
    public void setTotalPrice(cart cart) {
        this.totalPrice = cart.calculateprice();
    public void printOrderInfo() {
        System.out.println("here's your order summary");
        System.out.println("Order Id: "+ getOrderId());
        System.out.println("Customer Id: "+ getCustomerId() );
        System.out.println("products details:");
        for(Product i: getProducts()){
            System.out.println(i.toString());
        System.out.println("Total order price: "+ getTotalPrice() +"$");
```

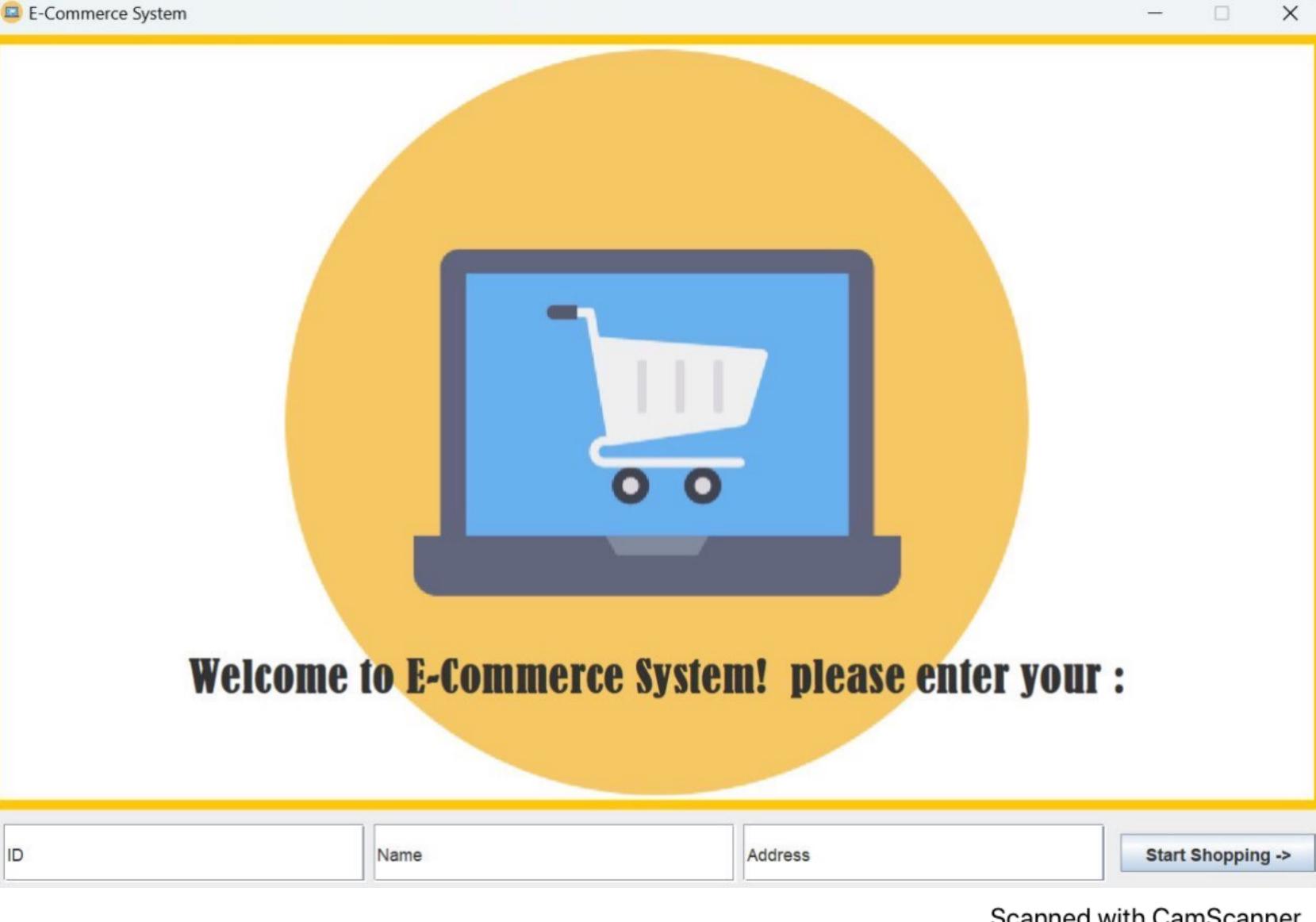
```
public static void main(String[] args) {
   ElectronicProduct phone = new ElectronicProduct("Samsung", 1, 1, 599.9f, "Smartphone");
   ClothingProduct tShirt=new ClothingProduct("medium", "cotton", 2, 19.99f, "T-shirt");
   BookProduct book=new BookProduct("0'Reilly", "X Publicatiions", 3, 39.99f, "oop");
    Scanner in =new Scanner(System.in);
   System.out.println("""
    int c Id=in.nextInt();
    in.nextLine();
   System.out.println("please enter your name:");
   String name=in.nextLine();
   System.out.println("please enter your address:");
    String address=in.nextLine();
   customer customer1=new customer(name, address,c Id);
   System.out.println("How many products do you want to order?");
    int nProducts=in.nextInt();
   cart cart1=new cart(c Id, nProducts);
        for(int i=0;i<cart1.getnProducts();i++){
            System.out.println("""
            int choice=in.nextInt();
            switch (choice) {
                case 1:cart1.addProduct(phone);
                    break;
                case 2:cart1.addProduct(tShirt);
                    break;
                case 3:cart1.addProduct(book);
                    break;
                default:
                    System.out.println("invalid number choice");
                    i--;
```

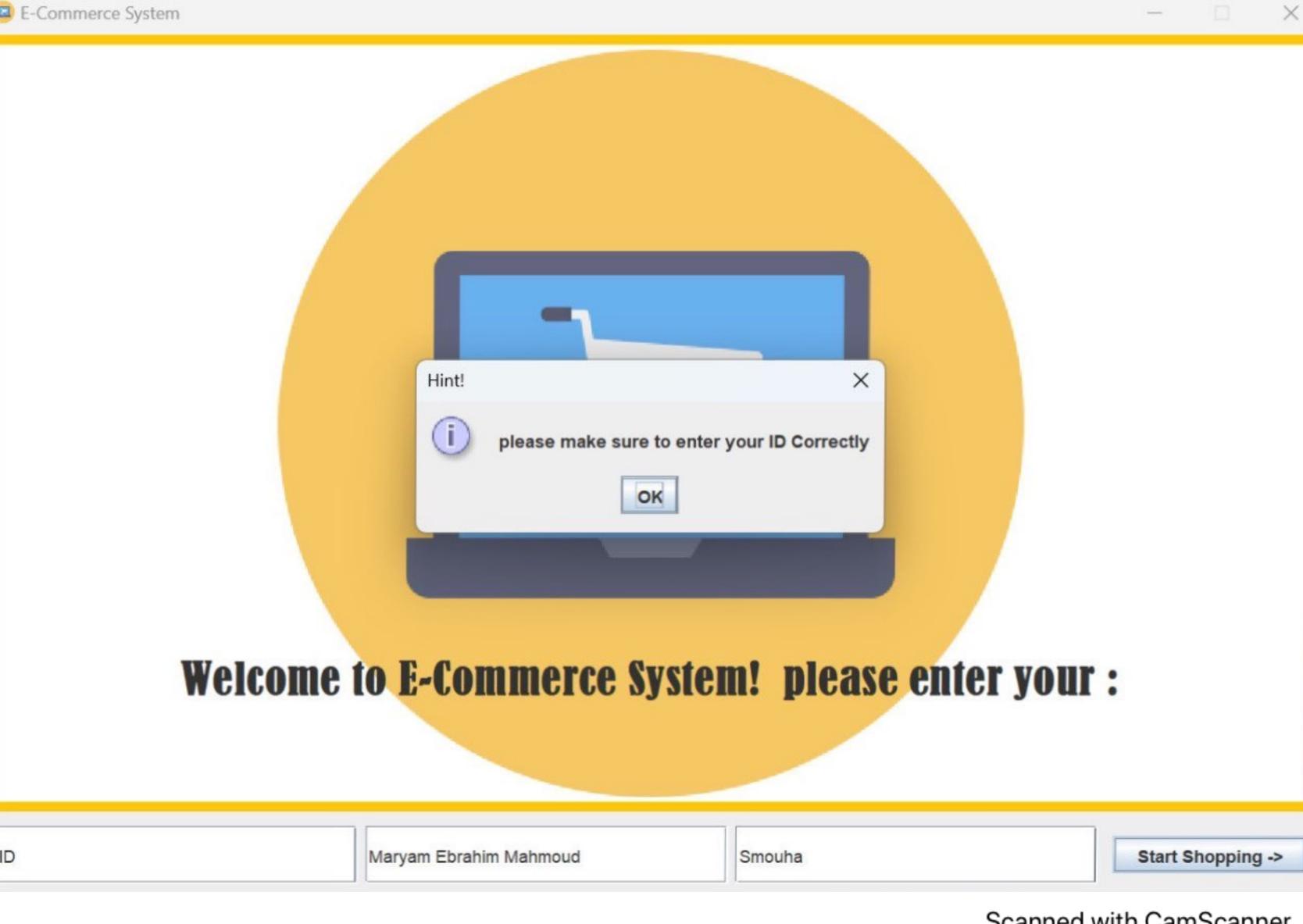
ublic class EcommerceSystem {

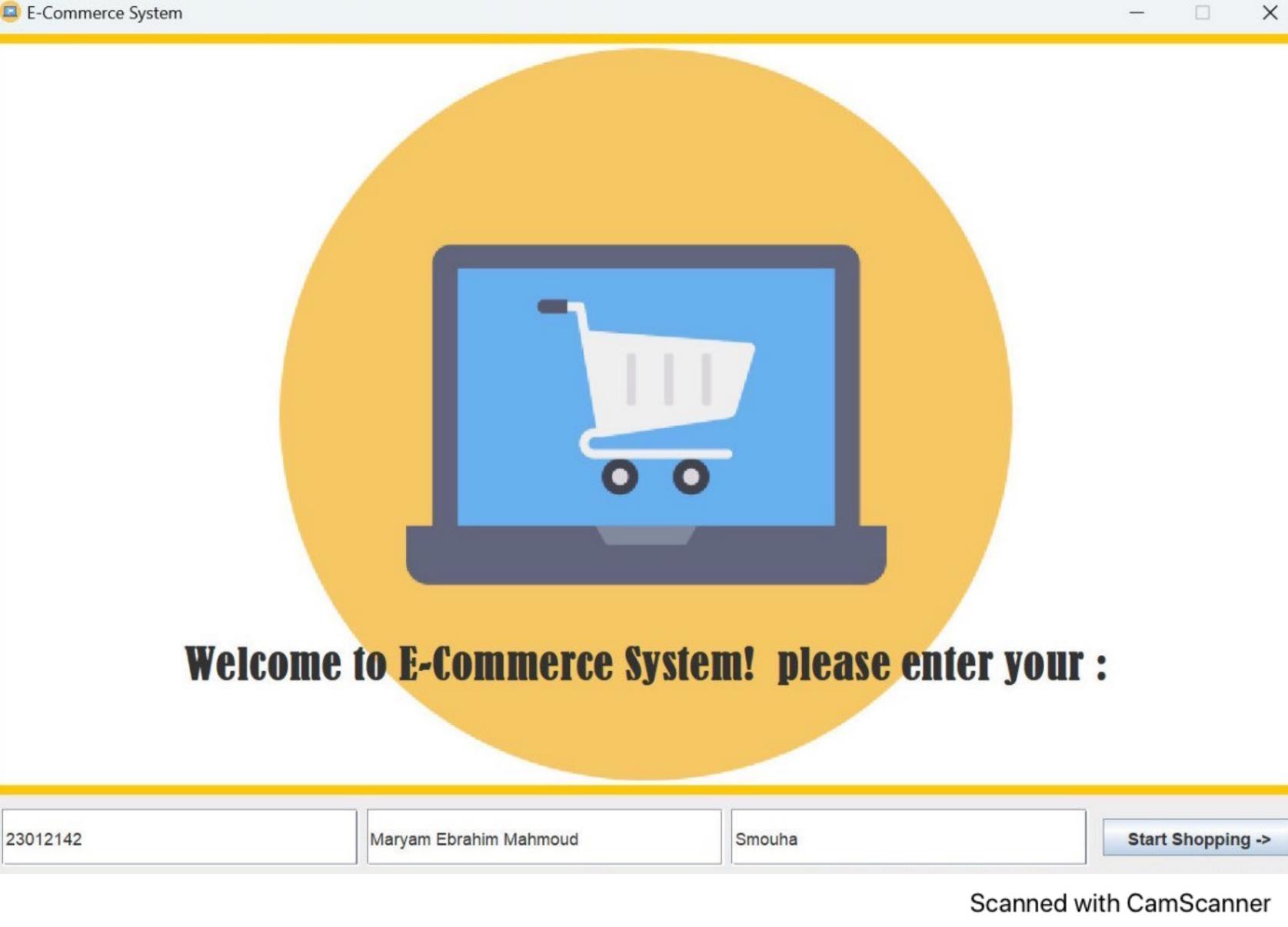
```
boolean flag1;
flag1=false;
System.out.println("you're total is"+cart1.calculateprice()+"$"+
int decision=in.nextInt();
switch (decision) {
        Order order = cart1.placeOrder(1, c_Id);
            order.setTotalPrice(cart1);
            order.printOrderInfo();
            System.out.println("delivery info:\n"+
                    "Name: "+customer1.getName()+"\n"+
                    "Address: "+customer1.getAddress());
    break;
    case 2:
        flag1=true;
        System.out.println("""
        int decision2=in.nextInt();
        boolean flag2;
            flag2=false;
        if (decision2==1) {
            System.out.println("""
            int decision3=in.nextInt();/////
            switch (decision3) {
                case 1 :
                        if(cart1.inTheOrder(phone)){
                        cart1.removeProduct(cart1.getProducts(),phone);
                        cart1.calculateprice();
                            System.out.println("product is not in the cart!");
                            flag2=true;
                        break;
                case 2:
                        if (cart1.inTheOrder(tShirt)) {
                        cart1.removeProduct(cart1.getProducts(),tShirt);
                        cart1.calculateprice();
                         }else{
                            System.out.println("product is not in the cart!");
```

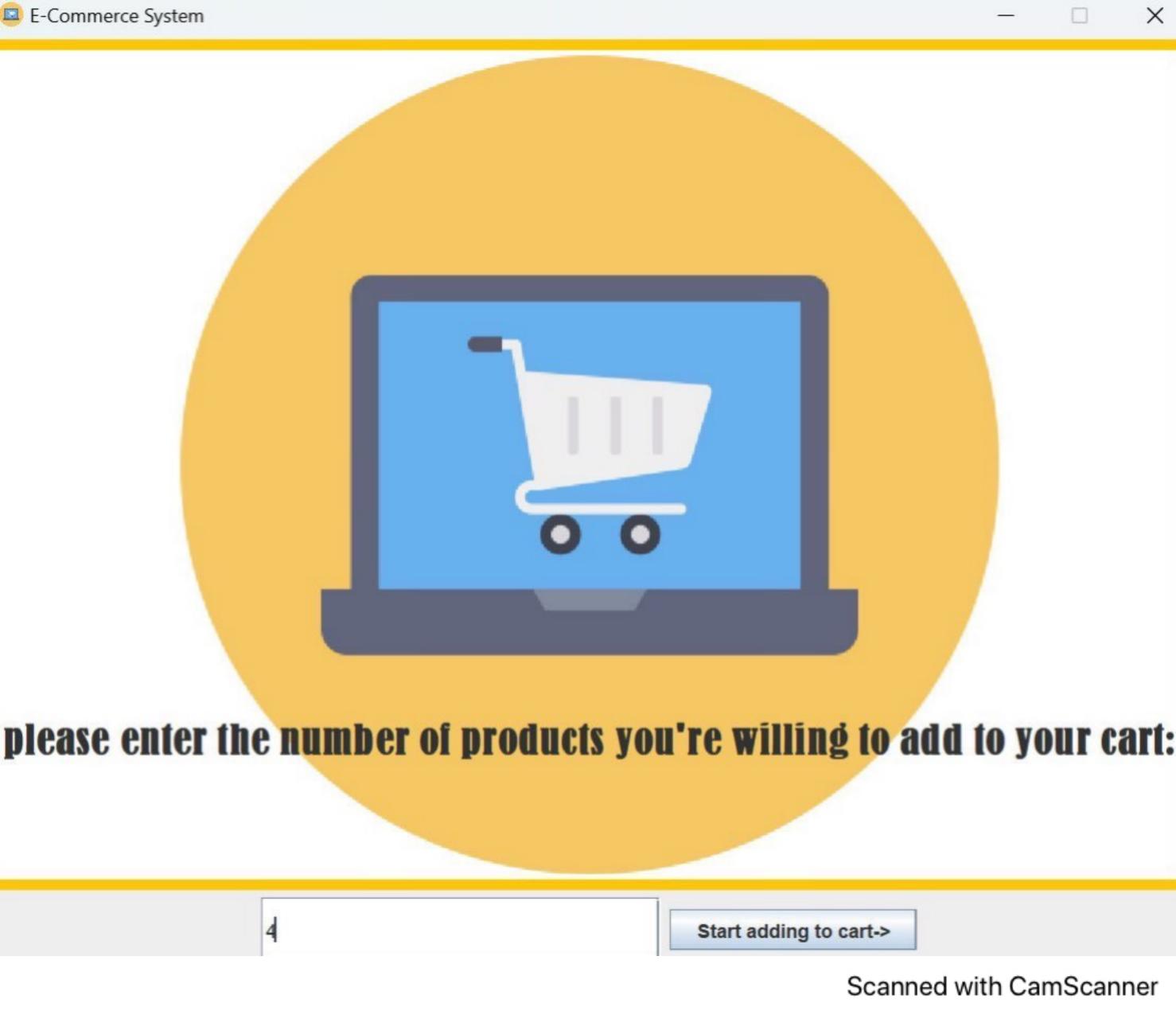
```
case 2:
        if(cart1.inTheOrder(tShirt)){
        cart1.removeProduct(cart1.getProducts(),tShirt);
        cart1.calculateprice();
        }else{
            System.out.println("product is not in the cart!");
            flag2=true;
        break;
        if (cart1.inTheOrder(book)) {
        cart1.removeProduct(cart1.getProducts(),book);
        cart1.calculateprice();
        }else{
            System.out.println("product is not in the cart!");
            flag2=true;
        break;
default: System.out.println("invalid number choice");
         flag2=true;
```

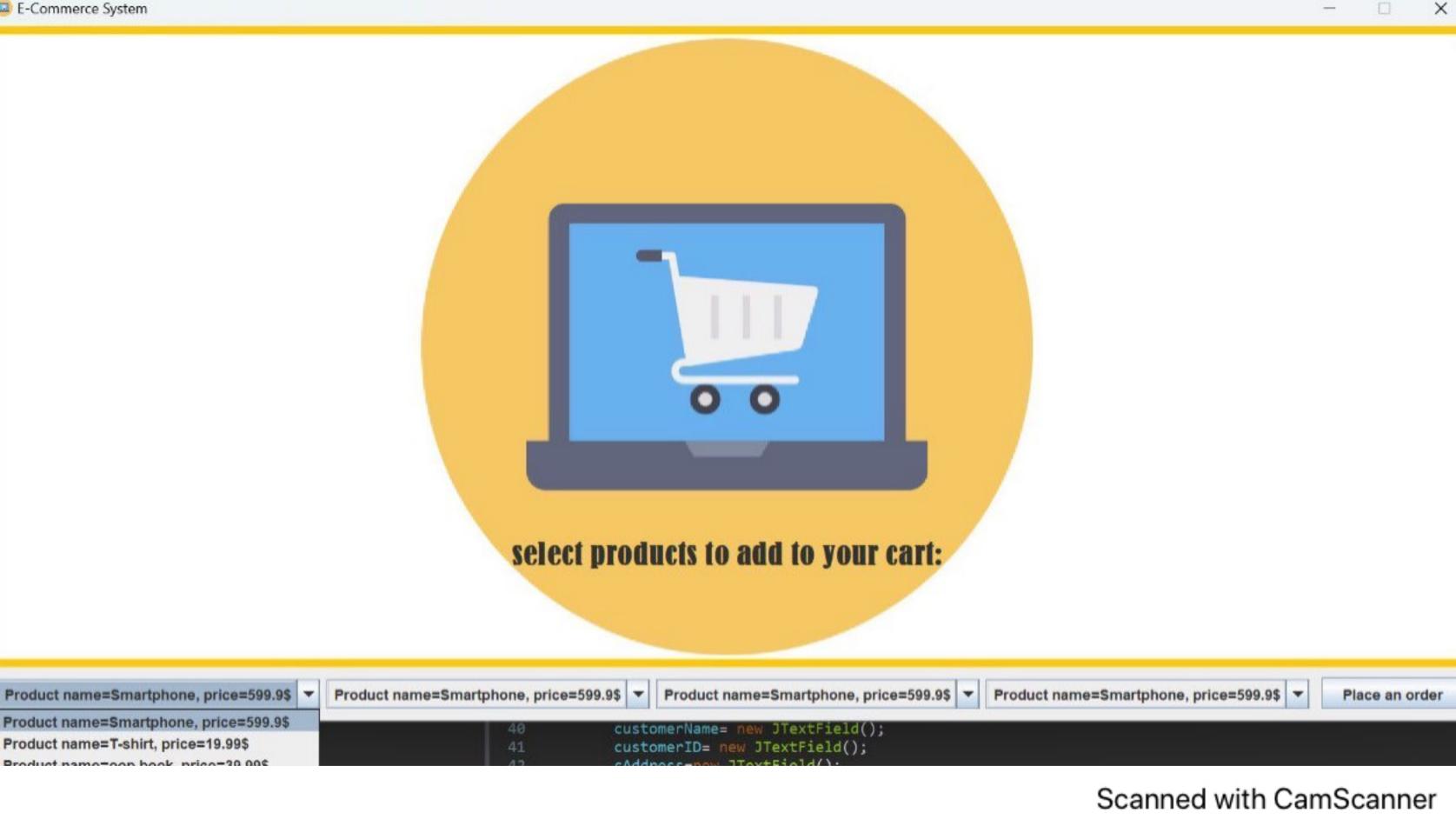
```
}while(flag2);
            System.out.println("""
            int decision4=in.nextInt();
            if (decision4==1) {
                boolean flag3;
            dol
                flag3=false;
                System.out.println("""
                int choice=in.nextInt();
                switch (choice) {
                    case 1: cart1.addProduct2(cart1.getProducts(),phone);
                              cart1.calculateprice();
                              break;
                    case 2 : cart1.addProduct2(cart1.getProducts(),tShirt);
                              cart1.calculateprice();
                              break;
                    case 3 : cart1.addProduct2(cart1.getProducts(),book);
                              cart1.calculateprice();
                              break;
                    default : System.out.println("invalid number choice, please enter a proper number.");
                              flag3=true;
            }while(flag3);
        break;
         default:
            System.out.println("we'll be waiting for your return!");
            break;
}while(flag1);
```

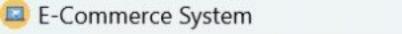


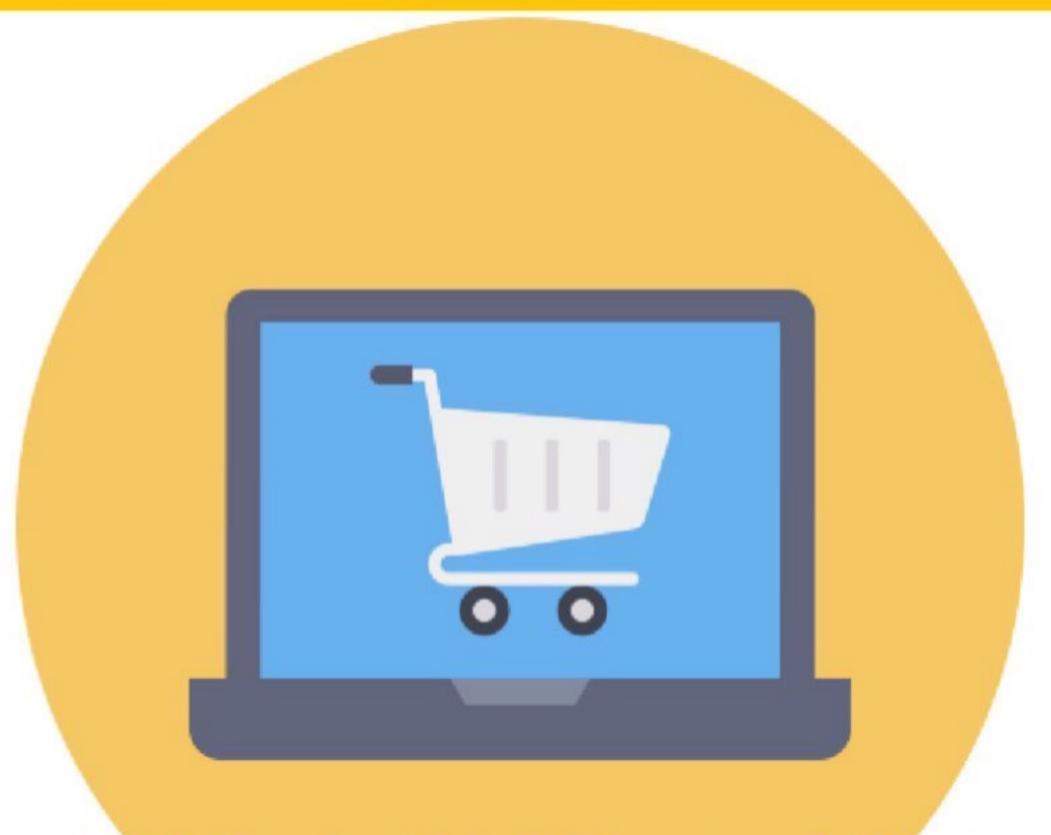












Thanks for shopping at E-Commerce System!

Order Summary:

Product name=Smartphone, price=599.9\$ total price = 679.87\$

Product name=T-shirt, price=19.99\$

Product name=T-shirt, price=19.99\$

Product name=oop book, price=39.99\$

Customer name: Maryam Ibrahim Mahmoud

**Customer ID: 23012132** 

Address: Smouha

X

```
■ Window2.java
                                                                 Order.java
                                                                             Product.java
  1 package e_commerce;
  20 import javax.swing.*;
  3 import java.awt.*;
  4 import java.awt.event.ActionEvent;
  5 import java.awt.event.ActionListener;
  6 import javax.swing.ImageIcon;
  7 import javax.swing.border.Border;
 10 public class StartUpPage extends JFrame implements ActionListener{
        JButton start;
 11
        JLabel intro;
 12
        ImageIcon logo;
 13
        JTextField customerID, customerName, cAddress;
 14
 15
        String name, address;
        int ID;
 16
 17
 18
        StartUpPage(){
 190
 20
 21
 22
             logo =new ImageIcon("e-c.png");
 23
             Border logoBorder =BorderFactory.createLineBorder(Color.ORANGE, 10);
 24
             intro=new JLabel();
 25
             intro.setText("Welcome to E-Commerce System! "+"\n"
 26
                            +" please enter your :");
 27
             intro.setIcon(logo);
 28
             intro.setHorizontalTextPosition(JLabel.CENTER);
 29
             intro.setVerticalTextPosition(JLabel.BOTTOM);
 30
             intro.setIconTextGap(-100);
 31
             intro.setFont(new Font("Bernard MT Condensed", Font.BOLD, 30));
 32
             intro.setBorder(logoBorder);
 33
             intro.setHorizontalAlignment(JLabel.CENTER);
 34
             intro.setVerticalAlignment(JLabel.CENTER);
 35
             intro.setBounds(100, 100, 150, 150);
 36
 37
 38
             customerName= new JTextField();
 39
             customerID= new JTextField();
 40
             cAddress=new JTextField();
 41
             customerName.setText("Name");
 43
             cAddress.setText("Address");
 44
             customerID.setText("ID");
 45
 46
             customerName.setPreferredSize(new Dimension(250,40));
 47
             customerID.setPreferredSize(new Dimension(250,40));
 48
             cAddress.setPreferredSize(new Dimension(250,40));
 49
 50
```

```
E_CommerceSystem.java
                      *StartUpPage.java × II Items.java
                                                    ■ Window2.java
                                                                   Order.java
                                                                                Product.java
 21
 52
             start= new JButton("Start Shopping ->");
             start.addActionListener(this);
 53
 54
            JPanel textBoxPanel = new JPanel();
 55
            textBoxPanel.add(customerID);
 56
 57
            textBoxPanel.add(customerName);
            textBoxPanel.add(cAddress);
 58
 59
 60
            JPanel buttonPanel = new JPanel();
            buttonPanel.add(textBoxPanel);
 61
            buttonPanel.add(start);
 62
 63
            this.setTitle("E-Commerce System");
 64
            this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
 65
 66
            this.setIconImage(logo.getImage());
 67
            this.getContentPane().setBackground(Color.WHITE);
            this.setResizable(false);
 68
            this.setLayout(new BorderLayout());
 69
            this.add(intro, BorderLayout.CENTER);
 70
            this.add(buttonPanel, BorderLayout.SOUTH);
 71
 72
            this.setSize(500, 600);
 73
            this.setVisible(true);
            this.pack();
 74
 75
 76
 77
 78
        public void actionPerformed(ActionEvent e){
 790
 80
            if(e.getSource()==start){
 81
 82
 83
                if(customerID.getText().equals("ID")) {
 84
                     JOptionPane.showMessageDialog(this, "please make sure to enter your ID Correctly",
 85
 86
                                                    "Hint!", JOptionPane. INFORMATION_MESSAGE);
                }if(customerName.getText().equals("Hint!")) {
87
88
                     JOptionPane.showMessageDialog(this, "please make sure to enter your name",
89
                                                    "error", JOptionPane. INFORMATION_MESSAGE);
                }if(cAddress.getText().equals("Address")) {
90
                     JOptionPane.showMessageDialog(this, "please make sure to enter your Address",
 91
                             "Hint!", JOptionPane. INFORMATION_MESSAGE);
 92
                }else {
 93
                     name=customerName.getText();
 94
                     address=cAddress.getText();
 95
                     ID=Math.abs(Integer.parseInt(customerID.getText()));
 96
                 new Items(this.address,this.name,this.ID);
 97
                 this.dispose();
 98
 99
100
101
102
```

```
E_CommerceSystem.java
StartUpPage.java
                                       Items.java × Window2.java
Order.java
                                                                               Product.java
1 package e_commerce;
20 import javax.swing.*;
9 public class Items extends JFrame implements ActionListener {
       public int nProducts;
10
       JTextField nProductsIN;
11
       JButton next;
12
13
       ImageIcon logo;
       JLabel page2;
14
       String name, address;
15
       int ID;
16
17
       int getNProducts() {
180
           return nProducts;
19
20
21
       Items (String address, String name, int ID) {
220
23
            this.address=address;
24
            this.name=name;
25
            this.ID=ID;
26
27
            logo =new ImageIcon("e-c.png");
28
            Border logoBorder =BorderFactory.createLineBorder(Color.ORANGE, 10);
29
30
31
            page2= new JLabel();
               page2.setText("please enter the number of products you're willing to add to your cart:");
32
               page2.setIcon(logo);
33
               page2.setHorizontalTextPosition(JLabel.CENTER);
34
               page2.setVerticalTextPosition(JLabel.BOTTOM);
35
               page2.setIconTextGap(-100);
36
               page2.setFont(new Font("Bernard MT Condensed", Font.BOLD, 25));
37
               page2.setBorder(logoBorder);
38
               page2.setHorizontalAlignment(JLabel.CENTER);
39
               page2.setVerticalAlignment(JLabel.CENTER);
40
               page2.setBounds(100, 100, 150, 150);
41
42
43
           nProductsIN = new JTextField();
44
           nProductsIN.setPreferredSize(new Dimension(250,40));
45
47
           next = new JButton("Start adding to cart->");
48
49
           next.addActionListener(this);
50
           JPanel bottomPanel = new JPanel();
51
           bottomPanel.add(nProductsIN);
52
53
           bottomPanel.add(next);
```

```
this.setTitle("E-Commerce System");
    this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    this.setIconImage(logo.getImage());
    this.getContentPane().setBackground(Color.WHITE);
    this.setResizable(false);
    this.setLayout(new BorderLayout());
    this.setVisible(true);
    this.add(page2,BorderLayout.CENTER);
    this.add(bottomPanel, BorderLayout.SOUTH);
    this.pack();
public void actionPerformed(ActionEvent e){
    if(e.getSource()==next){
       nProducts=Math.abs(Integer.parseInt(nProductsIN.getText()));
        new Window2(this.getNProducts(),this.address,this.name,this.ID);
        this.dispose();
```

6

```
🗓 E_CommerceSystem.java 🛮 🚨 StartUpPage.java 🔻 🚨 Items.java
                                                   Window2.java ×  Order.java
                                                                               Product.java
1 package e_commerce;
20 import javax.swing.*;
9 public class Window2 extends JFrame implements ActionListener {
       JComboBox[] products;
10
11
       int nProducts;
       JButton next;
12
       ImageIcon logo;
13
       JLabel page2;
14
       JPanel panel, panel2;
15
       Product[] productsArr;
16
17
       Product[] selectedProducts;
       String name, address;
18
19
       int ID;
20
       public Window2(int nProducts, String address, String name, int ID) {
210
           this.nProducts = nProducts;
22
           this.address=address;
23
           this.name=name;
24
25
           this.ID=ID;
26
           logo = new ImageIcon("e-c.png");
27
           Border logoBorder = BorderFactory.createLineBorder(Color.ORANGE, 10);
28
29
           page2 = new JLabel();
30
           page2.setText("select products to add to your cart:");
31
           page2.setIcon(logo);
32
33
           page2.setHorizontalTextPosition(JLabel.CENTER);
           page2.setVerticalTextPosition(JLabel.BOTTOM);
34
           page2.setIconTextGap(-100);
35
           page2.setFont(new Font("Bernard MT Condensed", Font.BOLD, 25));
36
           page2.setBorder(logoBorder);
37
           page2.setHorizontalAlignment(JLabel.CENTER);
38
           page2.setVerticalAlignment(JLabel.CENTER);
39
           page2.setBounds(100, 100, 150, 150);
40
41
           next = new JButton("Place an order");
42
           next.addActionListener(this);
43
44
           ElectronicProduct phone = new ElectronicProduct("Samsung",1,1,599.9f, "Smartphone");
45
           ClothingProduct tShirt=new ClothingProduct("medium", "cotton", 2, 19.99f, "T-shirt");
46
           BookProduct book=new BookProduct("O'Reilly", "X Publicatiions", 3, 39.99f, "oop book");
47
           productsArr = new Product [3];
48
           productsArr[0]=phone;
49
           productsArr[1]= tShirt;
50
           productsArr[2]=book;
51
52
```

```
products = new JComboBox [nProducts];
    selectedProducts = new Product[nProducts];
   panel = new JPanel();
    for (int i = 0; i < nProducts; i++) {
        products[i] = new JComboBox<>(productsArr);
        products[i].addActionListener(this);
        panel.add(products[i]);
    }
   panel2 = new JPanel();
    panel2.add(panel);
    panel2.add(next);
    this.setTitle("E-Commerce System");
    this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    this.setIconImage(logo.getImage());
    this.getContentPane().setBackground(Color.WHITE);
    this.setResizable(false);
    this.setLayout(new BorderLayout());
    this.add(page2, BorderLayout.CENTER);
    this.add(panel2, BorderLayout.SOUTH);
    this.pack();
    this.setVisible(true);
@Override
public void actionPerformed(ActionEvent e) {
    for (int i = 0; i < nProducts; i++) {
        if (e.getSource() == products[i]) {
            selectedProducts[i] = (Product) products[i].getSelectedItem();
    }
    if (e.getSource() == next) {
        this.dispose();
        new Order(this.selectedProducts,this.address,this.name,this.ID);
```

```
1 package e_commerce;
20 import javax.swing.*;
9 public class Order extends JFrame {
      Object[] selectedProducts;
10
      String name, address;
11
      int ID;
12
13
     Order(Product [] selectedProducts, String address, String name, int ID){
140
15
         this.address=address;
         this.name=name;
16
17
         this.ID=ID;
18
         ImageIcon logo = new ImageIcon("e-c.png");
19
         Border logoBorder = BorderFactory.createLineBorder(Color.ORANGE, 10);
20
         JLabel page4= new JLabel();
21
         page4 = new JLabel();
22
         page4.setText("Thanks for shopping at E-Commerce System! ");
23
         page4.setIcon(logo);
24
          page4.setHorizontalTextPosition(JLabel.CENTER);
25
          page4.setVerticalTextPosition(JLabel.BOTTOM);
26
         page4.setIconTextGap(-100);
27
         page4.setFont(new Font("Bernard MT Condensed", Font.BOLD, 25));
28
          page4.setBorder(logoBorder);
29
          page4.setHorizontalAlignment(JLabel.CENTER);
30
         page4.setVerticalAlignment(JLabel.CENTER);
31
32
         page4.setBounds(100, 100, 150, 150);
33
34
          JLabel title =new JLabel("Order Summary :");
35
          title.setFont(new Font("Bernard MT Condensed", Font.BOLD, 25));
36
37
          JPanel panel = new JPanel();
38
          panel.setLayout(new GridLayout(selectedProducts.length, 1));
39
          float totalPrice=0f;
40
          for (Product product : selectedProducts) {
41
              JLabel productLabel = new JLabel(product.toString());
42
              productLabel.setHorizontalAlignment(SwingConstants.LEFT);
43
              productLabel.setFont(new Font("Bernard MT Condensed", Font.LAYOUT_LEFT_TO_RIGHT, 20));
44
             totalPrice+=product.getPrice();
45
              panel.add(productLabel);
         JTextArea orderDetails= new JTextArea("total price = "+totalPrice+"$ \n"+
48
                                                  "Customer name: "+this.name+"\n"+
49
                                                  "Customer ID: "+this.ID+"\n"+
                                                   "Address: "+this.address);
52
          orderDetails.setFont(new Font("Bernard MT Condensed", Font.LAYOUT_LEFT_TO_RIGHT, 20));
          orderDetails.setBackground(null);
53
```

♣ \*Order.java × 
♣ Product.java

🛚 E\_CommerceSystem.java 🔎 StartUpPage.java 🔑 Items.java 🔑 Window2.java

```
JPanel panel2 = new JPanel();
      panel2.add(title);
      panel2.add(panel);
      panel2.add(orderDetails);
this.setTitle("E-Commerce System");
this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
this.setIconImage(logo.getImage());
this.getContentPane().setBackground(Color.WHITE);
this.setResizable(false);
this.setLayout(new BorderLayout());
this.add(panel2, BorderLayout.SOUTH);
this.setVisible(true);
this.add(page4, BorderLayout.CENTER);
this.pack();
```

```
1 package e_commerce;
   class Product{
       private int productId;
       private float price;
       private String name;
       public int getProductId() {
 80
            return productId;
10
11
       public void setProductId(int productId) {
120
           this.productId = Math.abs(productId);
13
14
15
       public float getPrice() {
160
           return price;
17
18
19
       public void setPrice(float price) {
200
           this.price = Math.abs(price);
21
22
23
       public String getName() {
240
25
           return name;
26
27
       public void setName(String name) {
28
29
           this.name = name;
30
31
       public Product() {
32●
33
34
       public Product (int productId, float price, String name) {
35●
           this.productId = Math.abs(productId);
36
           this.price = Math.abs(price);
37
           this.name = name;
38
39
40
       @Override
410
       public String toString() {
42
           return " Product name=" + name + ", price=" + price +"$";
43
44
45
46
47 }
```

Items.java

Window2.java

\*Order.java

Product.java ×

E\_CommerceSystem.java 🛂 StartUpPage.java

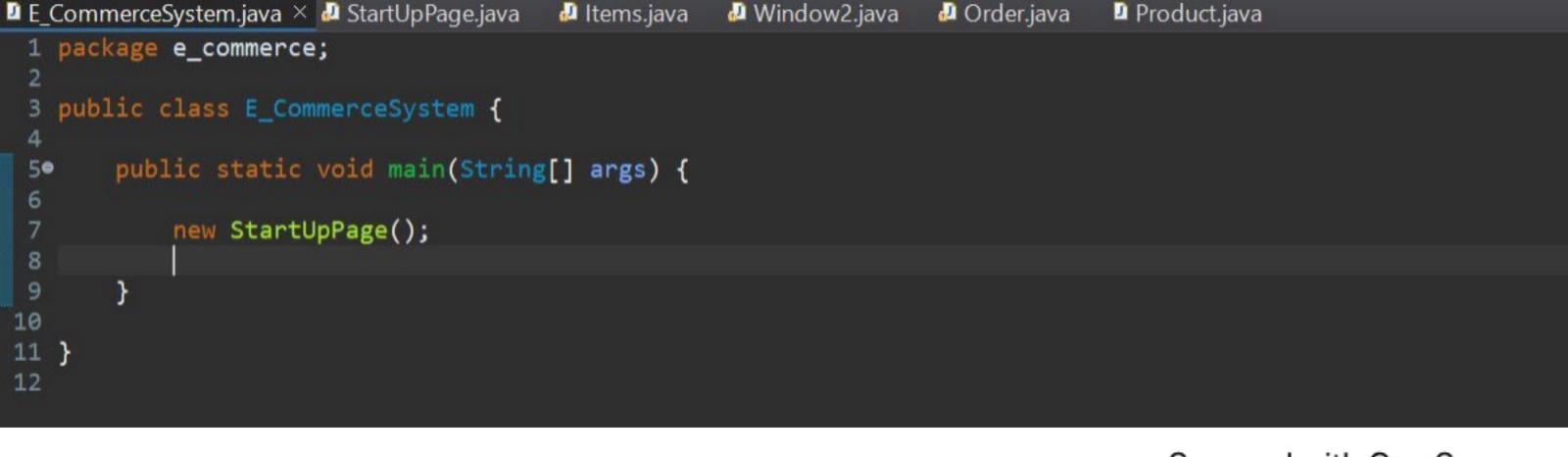
```
49
50 class ElectronicProduct extends Product{
       private String brand;
51
       private int warrantyPeriod;
52
53
       public String getBrand() {
540
           return brand;
55
56
57
       public void setBrand(String brand) {
58e
           this.brand = brand;
59
60
61
       public int getWarrantyPeriod() {
620
           return warrantyPeriod;
63
64
65
       public void setWarrantyPeriod(int warrantyPeriod) {
660
           this.warrantyPeriod = Math.abs(warrantyPeriod);
67
68
69
       public ElectronicProduct(String brand, int warrantyPeriod) {
700
           this.brand = brand;
71
           this.warrantyPeriod = warrantyPeriod;
72
73
74
       public ElectronicProduct(String brand, int warrantyPeriod, int productId, float price, String name) {
75●
           super(productId, price, name);
76
           this.brand = brand;
77
           this.warrantyPeriod = Math.abs(productId);
78
79
80
81 }
```

```
115 class BookProduct extends Product{
       private String author;
116
       private String publisher;
117
118
       public String getAuthor() {
1190
            return author;
120
121
122
       public void setAuthor(String author) {
1230
            this.author = author;
124
125
126
       public String getPublisher() {
1270
            return publisher;
128
129
130
       public void setPublisher(String publisher) {
131•
            this.publisher = publisher;
132
133
134
       public BookProduct(String author, String publisher) {
135
            this.author = author;
136
            this.publisher = publisher;
137
138
139
        public BookProduct(String author, String publisher, int productId, float price, String name) {
1400
            super(productId, price, name);
141
            this.author = author;
142
            this.publisher = publisher;
143
144
145 }
```

114

1/6

```
3 class ClothingProduct extends Product{
      private String size;
     private String fabric;
      public String getSize() {
70
         return size;
     public void setSize(String size) {
         this.size = size;
     public String getFabric() {
         return fabric;
     public void setFabric(String fabric) {
         this.fabric = fabric;
    public ClothingProduct(String size, String fabric) {
        this.size = size;
        this.fabric = fabric;
    public ClothingProduct(String size, String fabric, int productId, float price, String name) {
        super(productId, price, name);
        this.size = size;
        this.fabric = fabric;
```



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