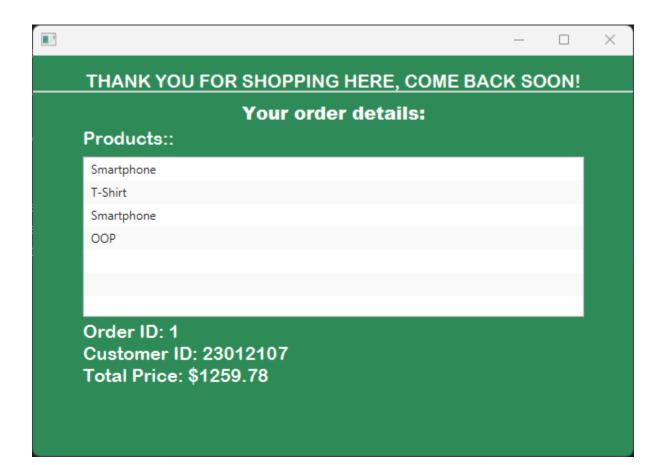
# **TEST CASE**

				_		×
WELCOME TO THE E-COMMERCE SYSTEM!						
	ID:	23012107				
	Name:	Noureldin Ashraf Ahme	ed			
	Address:	Milkyway, Solar System	Earth			
	Address.	Wilkyway, Solai System	, Laitii			
		ENTER				
		ENTER				
				_		×
WELCOME, No	oureldin Ashro	af Ahmed				
		vailable products: Dick to choose				
	OOP   \$39.99	Smartphone   \$599.9	T-Shirt   \$19.99			
CHOSEN PRODUCTS:						
Smartphone						
T-Shirt						
Smartphone OOP						
201						
CANCEL ORDER		OTAL: \$1259.78		CREA	ATE ORD	ER
CANOLLONDER		OTAL: \$1209.76		CIVER	TE ORDI	-11



## **PRODUCT CLASS**

```
public class Product {
        private int productId;
        private String name;
        private double price;
        public Product(int productId, String name, double price) {
            if (productId < 0)</pre>
                this.productId = (-1 * productId);
                this.productId = productId;
            if (price < 0)
                this.price = price;
        public void setProductId(int productId) {
            if (productId < 0)
                this.productId = (-1 * productId);
                this.productId = productId;
        public String getName() { return name; }
        public void setName(String name) { this.name = name; }
            if (price < 0)
                this.price = price;
```

### **ELECTRONIC PRODUCT CLASS**

```
public class ElectronicProduct extends Product{
    private string brand;
    private int warrantyPeriod;

public ElectronicProduct() {}
    public ElectronicProduct(int productId, String name, double price, String brand, int warrantyPeriod) {
        super(productId, name, price);
        this.brand = brand;

        if (warrantyPeriod <0)
            this.warrantyPeriod = (-1 * warrantyPeriod);
        else
            this.warrantyPeriod = warrantyPeriod;
        }

    public String getBrand() { return brand; }
    public void setBrand(String brand) { this.brand = brand; }

    public void setWarrantyPeriod() { return warrantyPeriod; }
    public void setWarrantyPeriod() { return warrantyPeriod; }
    if (warrantyPeriod <0)
        this.warrantyPeriod = (-1 * warrantyPeriod);
        else
            this.warrantyPeriod = (-1 * warrantyPeriod);
        else
            this.warrantyPeriod = warrantyPeriod;
}
</pre>
```

## **CLOTHING PRODUCT CLASS**

```
public class ClothingProduct extends Product{
    private String size;
    private String fabric;

public ClothingProduct() {}

public ClothingProduct(int productId, String name, double price, String size, String fabric) {
    super(productId, name, price);
    this.size = size;
    this.fabric = fabric;
}

public String getSize() { return size; }
    public void setSize(String size) { this.size = size; }

public String getFabric() { return fabric; }
    public String getFabric() { return fabric; }
    public void setFabric(String fabric) { this.fabric = fabric; }
}
```

# **BOOK PRODUCT CLASS**

```
public class BookProduct extends Product{
    private String author;
    private String publisher;

public BookProduct() {}

public BookProduct(int productId, String name, double price, String author, String publisher) {
    super(productId, name, price);
    this.author = author;
    this.publisher = publisher;
}

public String getAuthor() { return author; }

public void setAuthor(String author) { this.author = author; }

public String getPublisher() { return publisher; }

public void setPublisher(String publisher) { this.publisher = publisher; }
}
```

## **CUSTOMER CLASS**

```
private int customerId;
private String name;
private String address;
public Customer(){}
public Customer(int customerId, String name, String address) {
    if (customerId < 0)</pre>
       this.customerId = (-1 * customerId);
        this.customerId = customerId;
    this.address = address;
public void setCustomerId(int customerId) {
    if (customerId < 0)
        this.customerId = customerId;
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; }
```

### **CART CLASS**

```
public class Cart {
    private ArrayList<Product> products;
   public Cart(int customerId) {
       if (customerId < 0)
           this.customerId = customerId;
       products = new ArrayList<>();
   public void addProduct(Product product) { products.add(product); }
   public void removeProduct(Product product) { products.remove(product); }
   public void removeAllProducts() { products.clear(); }
       double totalPrice = 0;
            totalPrice+=i.getPrice();
       return totalPrice;
   public Order placeOrder(){
       Order order = new Order(customerId, orderld: 1, products, calculatePrice());
       return order;
   public int getCustomerId() { return customerId; }
   public void setCustomerId(int customerId) {
       if (customerId < 0)
           this.customerId = customerId;
```

### **ORDER CLASS**

```
public class Order {
   private int customerId;
   private ArrayList<Product> products;
   public Order(int customerId, int orderId, ArrayList<Product> products, double totalPrice){
       if (customerId < 0)
           this.customerId = (-1 * customerId);
            this.customerId = customerId;
        if (orderId < 0)
            this.orderId = (-1 * orderId);
            this.orderId = orderId;
       this.products = products;
        if (totalPrice < 0)</pre>
            this.totalPrice = (-1 * totalPrice);
            this.totalPrice = totalPrice;
   public String printOrderInfo(){
       String s = "Order ID: " + orderId+
    public ArrayList<String> getProducts(){
        ArrayList<String> productNames = new ArrayList<>();
        for (Product i : products){
            productNames.add(i.getName());
       return productNames;
```

## **ECOMMERCE SYSTEM CLASS**

## **CLASSES REQUIRED FOR JAVAFX:**

#### PRIMARYCONTROLLER CLASS

```
public class PrimaryController {
    private Label errorMessage;
    private Button enterButton;
   private TextField addressTextfield;
   private TextField idTextfield;
    private TextField nameTextfield;
   @FXML
   public void initialize() throws IOException {
       smartphone = new ElectronicProduct( productld: 1, name: "Smartphone", price: 599.9, brand: "Samsung", warrantyPeriod: 1)
        tShirt = new ClothingProduct( productld: 2, name: "T-Shirt", price: 19.99, size: "Medium", fabric: "Cotton");
        00P = new BookProduct( productld: 3, name: "00P", price: 39.99, author: "0'Reilly", publisher: "X Publications");
        nameTextfield.setText("Noureldin Ashraf Ahmed");
   @FXML
    void onClickEnter(ActionEvent event) throws IOException {
        if (!hasErrors()){
            int id = Integer.parseInt(idTextfield.getText());
            String name = nameTextfield.getText();
            String address = addressTextfield.getText();
            customer = new Customer(id, name, address);
            cart = new Cart(id);
            switchToSecondary();
```

**CONTINUE THIS CLASS IN NEXT PAGE...** 

#### SECONDARYCONTROLLER CLASS

```
public class SecondaryController {
   private ListView<String> productListView;
   private Label welcomeMessage;
   @FXML
   private Label totalMessage;
   @FXML
       String welcomemsg = welcomeMessage.getText().replaceAll( regex: "replace", customer.getName());
       welcomeMessage.setText(welcomemsg);
   @FXML
   void onClickOOP(ActionEvent event) {
       cart.addProduct(00P);
       addProductToViewList(00P.getName());
       totalMessage.setText("TOTAL: $"+cart.calculatePrice());
   @FXML
   void onClickSmartphone(ActionEvent event) {
       cart.addProduct(smartphone);
       addProductToViewList(smartphone.getName());
       totalMessage.setText("TOTAL: $"+cart.calculatePrice());
   @FXML
   void onClickTshirt(ActionEvent event) {
       cart.addProduct(tShirt);
       addProductToViewList(tShirt.getName());
       totalMessage.setText("TOTAL: $"+cart.calculatePrice());
   @FXML
   void onClickCancelOrder(ActionEvent event) {
       cart.removeAllProducts();
       productListView.getItems().clear();
       totalMessage.setText("TOTAL: $"+cart.calculatePrice());
```

# **SHOWCONTROLLER CLASS**

```
public class ShowController {
    @FXML
private ListView<String> productListView;
    @FXML
private Label detailsMessage;

@FXML
public void initialize() throws IOException {
    productListView.getItems().addAll(order.getProducts());
    detailsMessage.setText(order.printOrderInfo());
}
```