# Assignment -5

| Subject | OOP |
|---------|-----|
| Name | Palak Abhay Pardeshi |
| Class | CS-D |
| Roll No. | 72 |

## Problem Statement

A fashion E-commerce company keeps a track of all the orders using an **ArrayList** and a class Order. Implement class **Order** and retrieve and return the list of items present in all the orders. Implement the logic inside **getItems()** method. Consider true and false value given in input for cash on delivery option.

Test the functionalities using the **main()** method of the **Tester** class.

### Sample Input and Output

| Sample Input | Expected Output |
|---|---|
| orders=[Order(101,itemNames=[Jeans, Shirt, Belt],true), Order(102,itemNames=[Tie,Shirt],true),Order(103,itemNames=[Tshirt,Socks,Tie],true) | [Jeans,Shirt,Belt,Tie,Shirt,Tshirt,Socks,Tie] |
| orders=[Order(311,itemNames=[Sportswear, Dumbbell],true), Order(102,itemNames=[, Jeans],true),Order(103,itemNames=[Smartwatch,Fitnessband,Joggers],true) | Sportswear,Dumbbell,Smartwatch, Fitnessband,Joggers] |

# Input:

```java
import java.util.ArrayList;

class Order {
    private ArrayList<String> itemNames;
    private boolean cashOnDelivery;

    public Order(ArrayList<String> itemNames, boolean cashOnDelivery) {
        this.itemNames = itemNames;
        this.cashOnDelivery = cashOnDelivery;
    }

    public ArrayList<String> getItems() {
        return itemNames;
    }

    public static void main(String[] args) {
        // Create some sample orders
        Order order1 = new Order(new ArrayList<String>() {{
            add("Jeans");
            add("Shirt");
            add("Belt");
        }}, true);

        Order order2 = new Order(new ArrayList<String>() {{
            add("Tie");
            add("Shirt");
        }}, true);

        Order order3 = new Order(new ArrayList<String>() {{
            add("Tshirt");
            add("Socks");
```

```java
            add("Tie");
        }}, true);

        Order order4 = new Order(new ArrayList<String>() {{
            add("Sportswear");
            add("Dumbbell");
        }}, true);

        Order order5 = new Order(new ArrayList<String>() {{
            add("Jeans");
        }}, true);

        Order order6 = new Order(new ArrayList<String>() {{
            add("Smartwatch");
            add("Fitnessband");
            add("Joggers");
        }}, true);

        // Add orders to an ArrayList
        ArrayList<Order> orders = new ArrayList<Order>() {{
            add(order1);
            add(order2);
            add(order3);
            add(order4);
            add(order5);
            add(order6);
        }};

        // Retrieve and print the items in all orders
        ArrayList<String> allItems = new ArrayList<String>();
        for (Order order : orders) {
            allItems.addAll(order.getItems());
        }
        System.out.println(allItems);
    }
}
```
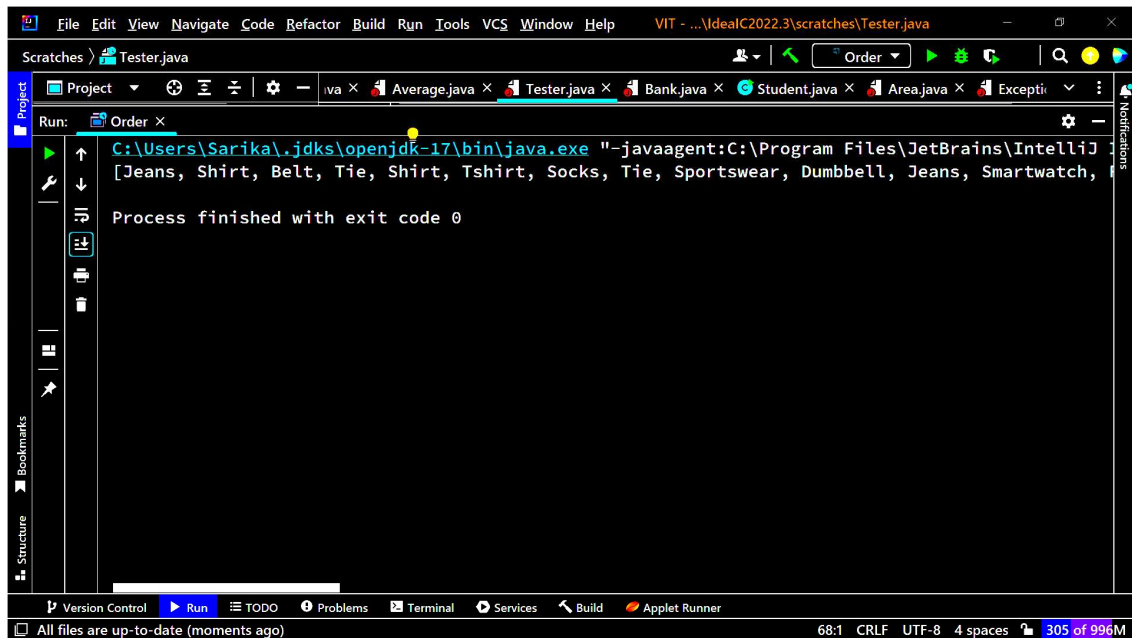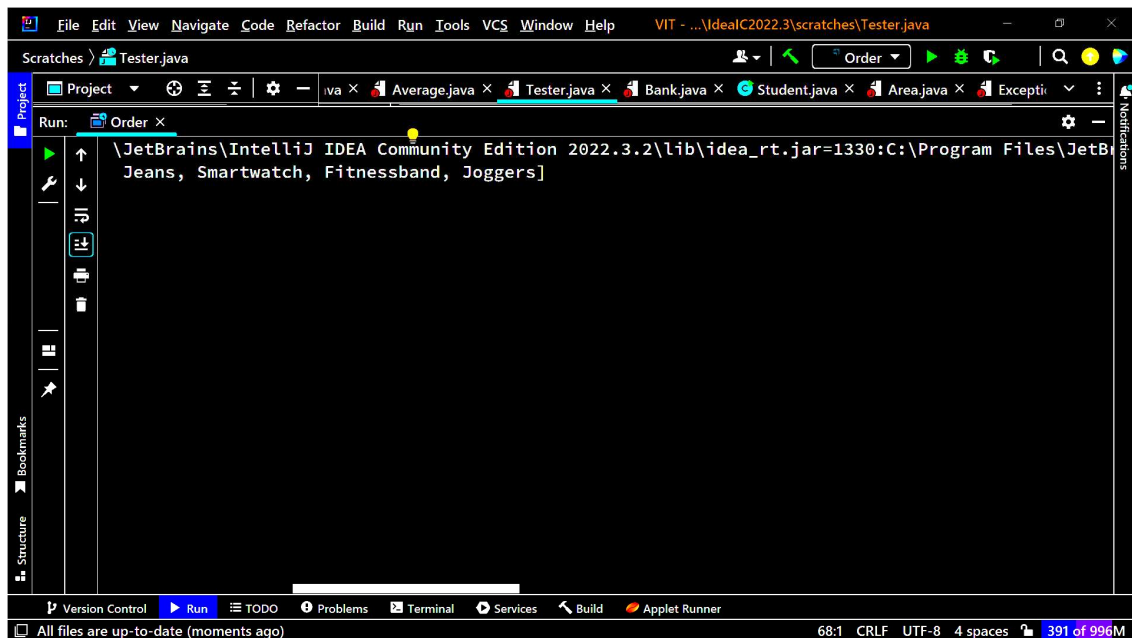
# Output:

Scratches ⟩ Tester.java                                            Order ▾

Project     ...va ×   Average.java ×   Tester.java ×   Bank.java ×   Student.java ×   Area.java ×   Exceptio

Run:   Order ×

```
C:\Users\Sarika\.jdks\openjdk-17\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ I
[Jeans, Shirt, Belt, Tie, Shirt, Tshirt, Socks, Tie, Sportswear, Dumbbell, Jeans, Smartwatch, F

Process finished with exit code 0
```

Version Control   ▶ Run   ☰ TODO   Problems   Terminal   Services   Build   Applet Runner

All files are up-to-date (moments ago)                    68:1   CRLF   UTF-8   4 spaces   305 of 996M

---

```
\JetBrains\IntelliJ IDEA Community Edition 2022.3.2\lib\idea_rt.jar=1330:C:\Program Files\JetBr
  Jeans, Smartwatch, Fitnessband, Joggers]
```