

ArrayList Assignment

GRN: 12110649

Name of the Student: Sarthak Auti

Roll No.: 34

Class: ET

Division: A

Batch: 2

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.

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]

CODE :

```
import java.util.*;
class Order{
    int orderId;
    List<String> itemNames;
    boolean cashOnDelivary;
    int getOrderId() {
        return orderId;
    }
    public void setOrderId(int orderId) {
        this.orderId = orderId;
    }
    public List<String> getItemNames() {
        return itemNames;
    }
    public void setItemNames(List<String> itemNames) {
        this.itemNames = itemNames;
    }
    public boolean getCashOnDelivary(){
        return cashOnDelivary;
    }
    public void setCashOnDelivary(boolean cashOnDelivary) {
        this.cashOnDelivary = cashOnDelivary;
    }
}
```

```

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

public class Tester {
    public static void main(String[] args) {
        List<String> itemnames1 = new ArrayList<String>();
        itemnames1.add("Jeans");
        itemnames1.add("Shirt");
        itemnames1.add("Belt");
        Order o1 = new Order(101, itemnames1, true);

        List<String> itemnames2 = new ArrayList<String>();
        itemnames2.add("Tie");
        itemnames2.add("Shirt");
        Order o2 = new Order(102, itemnames2, true);

        List<String> itemnames3 = new ArrayList<String>();
        itemnames3.add("TShirts");
        itemnames3.add("Socks");
        itemnames3.add("Tie");
        Order o3 = new Order(103, itemnames3, true);

        List<String> itemnames4 = new ArrayList<String>();
        itemnames4.add("Sportswear");
        itemnames4.add("Dumbbell");
        Order o4 = new Order(311, itemnames4, true);

        List<String> itemnames5 = new ArrayList<String>();
        itemnames5.add("Smartwatch");
        itemnames5.add("Fitnessband");
        itemnames5.add("Joggers");
        Order o5 = new Order(103, itemnames5, true);

        List<Order> orders = new ArrayList<Order>();
        orders.add(o1);
        orders.add(o2);
        orders.add(o3);

        List<Order> orders1 = new ArrayList<Order>();
        orders1.add(o4);
        orders1.add(o5);
        //orders.add(o3);

        System.out.println("List of Items");
        List<String> items =.getItems(orders);

        //System.out.println(items);
        System.out.println("List of Items");
        List<String> items1 = .getItems(orders1);

        /*for (String item : items) {
            System.out.print(item+ " ");
        }*/
        //System.out.println(items1);
    }

    private static List<String> getItems(List<Order> orders) {
        List<String> items = new ArrayList<String>();
        for (Order order : orders) {
            items.addAll(order.getItemNames());
        }
        System.out.println(items);
        return items;
    }
}

```

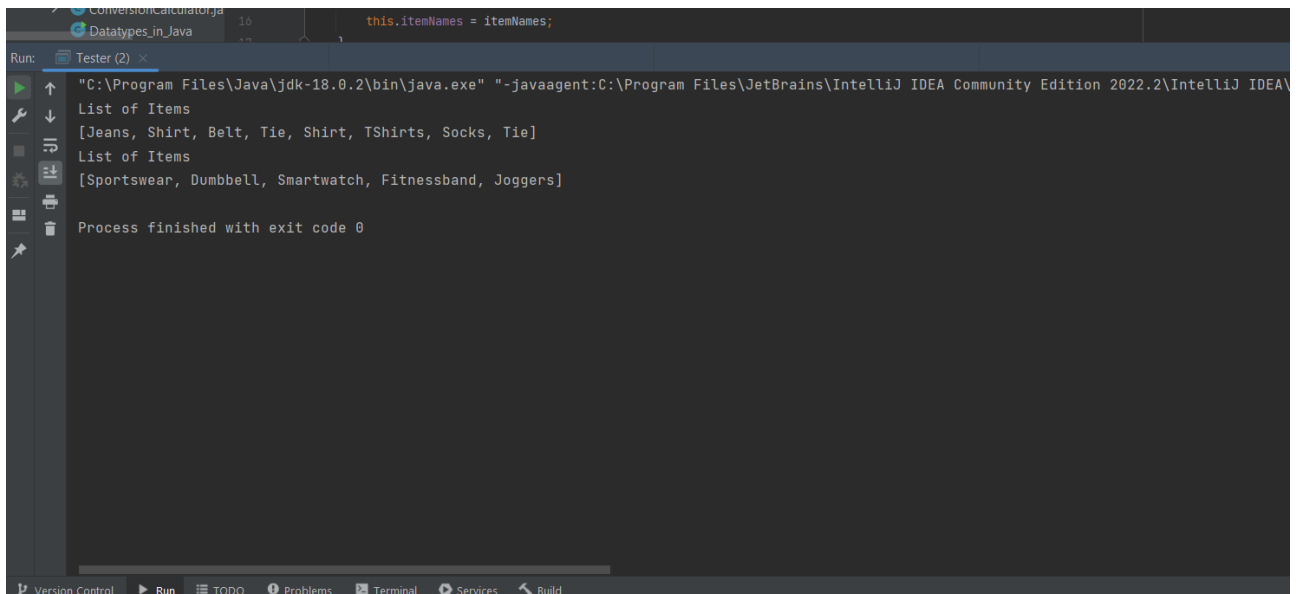
```

    }

    private static List<String>.getItems1(List<Order> orders1) {
        List<String> items1 = new ArrayList<String>();
        for (Order order : orders1) {
            items1.addAll(order.getItemNames());
        }
        System.out.println(items1);
        return items1;
    }
}

```

OUTPUT :



The screenshot shows the IntelliJ IDEA interface with the Run console open. The console output is as follows:

```

"C:\Program Files\Java\jdk-18.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.2\IntelliJ IDEA\
List of Items
[Jeans, Shirt, Belt, Tie, Shirt, TShirts, Socks, Tie]
List of Items
[Sportswear, Dumbbell, Smartwatch, Fitnessband, Joggers]
Process finished with exit code 0

```

The output displays two lists of items. The first list, "List of Items", contains [Jeans, Shirt, Belt, Tie, Shirt, TShirts, Socks, Tie]. The second list, also labeled "List of Items", contains [Sportswear, Dumbbell, Smartwatch, Fitnessband, Joggers]. The process finished with exit code 0.