МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ

НАЦІОНАЛЬНОМУ УНІВЕРСИТЕТІ “ЛЬВІВСЬКА ПОЛІТЕХНІКА”

Кафедра систем штучного інтелекту

Лабораторна робота № 14

з дисципліни

«Об’єктно-орієнтоване програмування»

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```
import
java.util.ArrayList;
                        import java.util.Collection;
                        import java.util.Iterator;
                        import java.util.Scanner;


                        public class ExampleCollection
                        {
                            // Collection using ArrayList
                            static Collection col = new ArrayList();


                            static String Station;
                            static String Arrival;
                            static String Departure;
                            static String FSeats;
                            static String Seats;
                            static String Days;
                            static String Number;
                            static String Add;


                            public static void main(String[] args) {
                                // Creating the collection
                                Collection col1 = createFirstCollection();




                                System.out.println("============= Going through the collection");
                                for(Object o : col1) {
                                    System.out.println("Item: " + o);
                                }


                                // Going through using Iterator
                                System.out.println("============= Going through using Iterator");
                                for (Iterator it = col1.iterator(); it.hasNext(); ) {
                                    String s = (String)it.next();
                                    System.out.println("Item:" + s);
                                }


                                // Deleting the collection's element
                                col1.remove(Arrival);
                                System.out.println("============= Deleting => " + Arrival);
```

```
        for(Object o : col1) {
            System.out.println("Item: " + o);
        }


        // Adding an element
        Add = "What you wish to add";
        col1.add(Add);
        System.out.println("============= Adding => " + Add);
        for(Object o : col1) {
            System.out.println("Item: " + o);
        }


        //Finding element in collection
        System.out.println("============= Finding element " + Station);
        int index = 0;
        for(Object o : col1) {
            if (o == Station)
                System.out.println("Item found on index: " + (index+1));
        }


        // Deleting all elements using Iterator
        System.out.println("============= Deleting using Iterator");
        while(!col1.isEmpty()) {
            Iterator it = col1.iterator();
            Object o = it.next();
            System.out.println("Deleting: " + o);
            // Deleting the element
            it.remove();
        }
    }


    // Collection
    public static Collection createFirstCollection() {


        /*Scanner in = new Scanner(System.in);
        System.out.print("Station: ");
        Station = in.nextLine();
        System.out.print("Arrival: ");
        Arrival = in.nextLine();
        System.out.print("Departure: ");
        Departure = in.nextLine();
        System.out.print("FSeats: ");
```

```
        FSeats = in.nextLine();
        System.out.print("Seats: ");
        Seats = in.nextLine();
        System.out.print("Days: ");
        Days = in.nextLine();
        System.out.print("Number: ");
        Number = in.nextLine();*/


        Station = "Lviv";
        Arrival = "12:05";
        Departure = "12:10";
        FSeats = "4";
        Seats = "50";
        Days = "Fridays";
        Number = "254";


        // Adding to collection
        col.add(Station);
        col.add(Arrival);
        col.add(Departure);
        col.add(FSeats);
        col.add(Seats);
        col.add(Days);
        col.add(Number);
        return col;
    }
}
```