**ArrayList in Java**

**Operations :**

1. **Declare an ArrayList of different Types**
2. **Add Element**
3. **Get Element**
4. **Add Element at a specific Index**
5. **Set Element at a specific Index**
6. **Delete Element from an Index**
7. **Size of the List**
8. **Loop/Iterate on the List**
9. **Sort the List**

**import java.util.ArrayList;**

**import java.util.Collections;**

**class ArrayLists {**

**public static void main(String args[]) {**

**ArrayList<Integer> list = new ArrayList<Integer>();**

**ArrayList<String> list2 = new ArrayList<String>();**

**ArrayList<Boolean> list3 = new ArrayList<Boolean>();**

**//add elements**

**list.add(1);**

**list.add(3);**

**list.add(4);**

**list.add(5);**

**System.out.println(list);**

**//to get an element**

**int element = list.get(0); // 0 is the index**

**System.out.println(element);**

**//add element in between**

**list.add(1,2); // 1 is the index and 2 is the element to be added**

**System.out.println(list);**

**//set element**

**list.set(0,0);**

**System.out.println(list);**

**//delete elements**

**list.remove(0); // 0 is the index**

**System.out.println(list);**

**//size of list**

**int size = list.size();**

**System.out.println(size);**

**//Loops on lists**

**for(int i=0; i<list.size(); i++) {**

**System.out.print(list.get(i) + " ");**

**}**

**System.out.println();**

**//Sorting the list**

**list.add(0);**

**Collections.sort(list);**

**System.out.println(list);**

**}**

**}**

**Homework Problems**

Try solving all problems of arrays with arraylists.