

<http://coderzheaven.com>

All about ArrayList - Android.

Program

```
package com.coderzheaven.arraylistcomplete;

import java.util.ArrayList;

import java.util.Arrays;

import java.util.Iterator;

import java.util.List;

import java.util.ListIterator;

import java.util.Vector;

import android.app.Activity;

import android.os.Bundle;

public class MainActivity extends Activity {

    @SuppressWarnings("unchecked")

    @Override

    public void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        ArrayList<String> al = new ArrayList<String>();
```

<http://coderzheaven.com>

```
System.out.println("Initial size of al: " + al.size());
```

```
al.add("C");
```

```
al.add("A");
```

```
al.add("E");
```

```
al.add("B");
```

```
al.add("D");
```

```
al.add("F");
```

```
al.add(1, "A2");
```

```
System.out.println("Size of al after additions: " + al.size());
```

```
System.out.println("Contents of al: " + al);
```

```
al.remove("F");
```

```
al.remove(2);
```

```
System.out.println("Size of al after deletions: " + al.size());
```

```
System.out.println("Contents of al: " + al);
```

```
// *****//
```

```
List<String> list = new ArrayList<String>();
```

```
list.add("A");
```

```
list.add("B");
```

<http://coderzheaven.com>

```
list.add("C");

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

list2.add("X");

list2.add("Y");

list2.add("Z");

list.addAll(list2);

list.addAll(1, list2);

System.out.println(list);

// *****//

ArrayList<String> arrayList = new ArrayList<String>();

arrayList.add("1");

arrayList.add("2");

arrayList.add("3");

Vector<String> v = new Vector<String>();

v.add("4");

v.add("5");

// insert all elements of Vector to ArrayList at index 1

arrayList.addAll(1, v);

for (String str : arrayList)
```

<http://coderzheaven.com>

```
System.out.println(str);
```

```
list.clear();
```

```
System.out.println("After Clearing");
```

```
for (String str : arrayList)
```

```
System.out.println(str);
```

```
// *****//
```

```
ArrayList myList = new ArrayList(5);
```

```
for (int j = 0; j < 5; j++) {
```

```
    myList.add(new Integer(j));
```

```
}
```

```
System.out.println("List contains " + myList.size() + " elements");
```

```
Integer int2 = new Integer(2);
```

```
System.out
```

```
    .println("List contains Integer(2): " + myList.contains(int2));
```

```
System.out.println("Integer(2) is at index " + myList.indexOf(int2));
```

```
myList.set(2, new Integer(99));
```

```
System.out.println("Get element at index 2: " + myList.get(2));
```

<http://coderzheaven.com>

```
        myList.ensureCapacity(15);

        for (int k = myList.size(); k < 25; k++) {
            myList.add(k, new Integer(k));
        }

        System.out.println(myList);

        myList.subList(10, 14).clear();
        myList.trimToSize();

        // *****//

        IteratorDemo();

        checkEmpty();

        ListIteratorDemo();

    }

    void IteratorDemo() {
        ArrayList<String> al = new ArrayList<String>();
```

<http://coderzheaven.com>

```
al.add("C");
al.add("A");
al.add("E");
al.add("B");
al.add("D");
al.add("F");

System.out.print("Original contents of al: ");
Iterator<String> itr = al.iterator();
while (itr.hasNext()) {
    String element = itr.next();
    System.out.print(element + " ");
}
System.out.println();

ListIterator<String> litr = al.listIterator();
while (litr.hasNext()) {
    String element = litr.next();
    litr.set(element + "+");
}

// Now, display the list backwards.
System.out.print("Modified list backwards: ");
while (litr.hasPrevious()) {
```

<http://coderzheaven.com>

```
        String element = itr.previous();
        System.out.print(element + " ");
    }
}

void checkEmpty() {
    List list = Arrays.asList(new String[] { "A", "B", "C", "D" });
    System.out.println(list.size());
    System.out.println(list.isEmpty());
}

void ListIteratorDemo() {
    ArrayList<String> al = new ArrayList<String>();

    al.add("C");
    al.add("A");
    al.add("E");
    al.add("B");
    al.add("D");
    al.add("F");

    System.out.print("Original contents of al: ");
    Iterator<String> itr = al.iterator();
    while (itr.hasNext()) {
        String element = itr.next();
```

<http://coderzheaven.com>

```
        System.out.print(element + " ");
    }
    System.out.println();

    ListIterator<String> litr = al.listIterator();
    while (litr.hasNext()) {
        String element = litr.next();
        litr.set(element + "+");
    }

    // Now, display the list backwards.
    System.out.print("Modified list backwards: ");
    while (litr.hasPrevious()) {
        String element = litr.previous();
        System.out.print(element + " ");
    }
}
}
```