

LIST(ARRAY & LINKED) and ITERATOR

```
package packageone;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.LinkedList;
import java.util.List;

import org.testng.annotations.Test;

public class Listpractice1 {
    @Test
    public void listfunc()
    {
        /*ADD in Array list*/
        List<String> listStrings0=new ArrayList<String>();
        listStrings0.add("Arun Kumar");
        listStrings0.add("Deivakumar");
        listStrings0.add("TCS");
        listStrings0.add("Redhills");
        listStrings0.add("Chennai");
        listStrings0.add("TN");
        System.out.println(listStrings0);
        /*OUTPUT: [Arun Kumar, Deivakumar, TCS, Redhills, Chennai, TN] */

        /*ADD in linked list*/
        List<String> listStrings = new LinkedList<String>();
        listStrings.add("Five");
        listStrings.add("Six");
        listStrings.add("Seven");
        listStrings.add("Eight");
        System.out.println(listStrings);
        /*OUTPUT: [Five, Six, Seven, Eight] */

        /*Copy value from one linked list to other*/
        List<String> listStrings1 = new LinkedList<String>();
        listStrings1.addAll(listStrings);
        System.out.println(listStrings1);
        /*OUTPUT: [Five, Six, Seven, Eight] */

        /*COPY*/
        String copy1=listStrings.get(3);
        System.out.println(copy1);
        /*OUTPUT: Eight */

        /*REPLACE*/
        listStrings0.set(2, "ILAMUKIL");
        System.out.println(listStrings0);
        /*OUTPUT: [Arun Kumar, Deivakumar, ILAMUKIL, Redhills, Chennai, TN] */

        /*REMOVE*/
        listStrings0.remove(5);
        System.out.println(listStrings0);
        /*OUTPUT: [Arun Kumar, Deivakumar, ILAMUKIL, Redhills, Chennai] */
    }
}
```

```
/*DELETE THE ENTIRE LIST*/
```

```
listStrings1.clear();  
System.out.println(listStrings1);
```

```
/*OUTPUT: [] */
```

```
/*WRITE IN EMPTY LIST USING ITERATOR*/
```

```
Iterator<String> iterator = listStrings.iterator();  
while (iterator.hasNext()) {  
    String i=iterator.next();  
    System.out.println(i);
```

```
/*OUTPUT: Five
```

```
Six
```

```
Seven
```

```
Eight*/
```

```
listStrings1.add(i);
```

```
}  
System.out.println(listStrings1);
```

```
/*OUTPUT: [Five, Six, Seven, Eight] */
```

```
/*CONTAINS*/
```

```
if(listStrings0.contains("Arun Kumar"))
```

```
{
```

```
    System.out.println("OOOOOKKKKKKKK");
```

```
}
```

```
else System.out.println("NOOOTOOOOKKKKKK");
```

```
/*OUTPUT: OOOOOKKKKKKKK */
```

```
/*PRINT THE INDEX*/
```

```
int ind1=listStrings0.indexOf("Arun Kumar");  
System.out.println(ind1);
```

```
/*OUTPUT: 0 */
```

```
/*sub list*/
```

```
System.out.println(listStrings0.subList(1, 3));
```

```
/*OUTPUT: [Deivakumar, ILAMUKIL] */
```

```
/*other functions are sort, copy, shuffle, reverse*/
```

```
}  
}
```

```
*****THANK YOU*****
```