

JAVA.UTIL.ARRAYLIST.CLONE METHOD

http://www.tutorialspoint.com/java/util/arraylist_clone.htm

Copyright © tutorialspoint.com

Description

The **java.util.ArrayList.clone** returns a shallow copy of this ArrayList instance
i. e. the elements themselves are not copied.

Declaration

Following is the declaration for **java.util.ArrayList.clone** method

```
public Object clone()
```

Parameters

- NA

Return Value

This method returns a clone of this ArrayList instance.

Exception

- NA

Example

The following example shows the usage of java.util.Arraylist.clone method.

```
package com.tutorialspoint;

import java.util.ArrayList;

public class ArrayListDemo {
    public static void main(String args[]) {

        // create an empty array list
        ArrayList<StringBuilder> arrlist1 = new ArrayList<StringBuilder>();

        // use add for new value
        arrlist1.add(new StringBuilder("Learning-"));

        // using clone to affect the objects pointed to by the references.
        ArrayList arrlist2 = (ArrayList) arrlist1.clone();

        // appending the string
        StringBuilder strbuilder = arrlist1.get(0);
        strbuilder.append("list1, list2-both pointing to the same StringBuilder");

        System.out.println("The 1st list prints: ");

        // both lists will print the same value, printing list1
        for (int i = 0; i < arrlist1.size(); i++) {
            System.out.print(arrlist1.get(i) + " ");
        }

        System.out.println("The 2nd list prints the same i.e:");

        // both lists will print the same value, printing list2
        for (int i = 0; i < arrlist2.size(); i++) {
            System.out.print(arrlist2.get(i));
        }
    }
}
```

```
}
```

Let us compile and run the above program, this will produce the following result:

```
The 1st list prints:  
Learning-list1, list2 - both pointing to the same StringBuilder  
The 2nd list prints the same i.e:  
Learning-list1, list2 - both pointing to the same StringBuilder  
Loading [Mathjax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js
```