

# How to loop ArrayList in Java

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Earlier we shared [ArrayList example](#) and [how to initialize ArrayList in Java](#). In this post we are sharing how to **iterate (loop) ArrayList in Java**.

There are four ways to loop ArrayList:

1. For Loop
2. Advanced for loop
3. While Loop
4. Iterator

Lets have a look at the below example – I have used all of the mentioned methods for iterating list.

```
import java.util.*;
public class LoopExample {
    public static void main(String[] args) {

        ArrayList<Integer> arrlist = new ArrayList<Integer>();
        arrlist.add(14);
        arrlist.add(7);
        arrlist.add(39);
        arrlist.add(40);

        /* For Loop for iterating ArrayList */
        System.out.println("For Loop");
        for (int counter = 0; counter < arrlist.size(); counter++) {

            System.out.println(arrlist.get(counter));
        }

        /* Advanced For Loop*/
        System.out.println("Advanced For Loop");
        for (Integer num : arrlist) {
            System.out.println(num);
        }

        /* While Loop for iterating ArrayList*/
        System.out.println("While Loop");
        int count = 0;
        while (arrlist.size() > count) {
            System.out.println(arrlist.get(count));
            count++;
        }

        /*Looping Array List using Iterator*/
        System.out.println("Iterator");
        Iterator iter = arrlist.iterator();
        while (iter.hasNext()) {
            System.out.println(iter.next());
        }
    }
}
```

```
}  
}  
}
```

Output:

```
For Loop  
14  
7  
39  
40  
Advanced For Loop  
14  
7  
39  
40  
While Loop  
14  
7  
39  
40  
Iterator  
14  
7  
39  
40
```

In the comment section below, Govardhan asked a question: He asked, how to iterate an ArrayList using [Enumeration](#). Govardhan here is the code:

## How to iterate arraylist elements using Enumeration interface

```
import java.util.Enumeration;  
import java.util.ArrayList;  
import java.util.Collections;  
  
public class EnumExample {  
  
    public static void main(String[] args) {  
        //create an ArrayList object  
        ArrayList<String> arrayList = new ArrayList<String>();  
  
        //Add elements to ArrayList  
        arrayList.add("C");  
        arrayList.add("C++");  
        arrayList.add("Java");  
        arrayList.add("DotNet");  
        arrayList.add("Perl");  
  
        // Get the Enumeration object  
        Enumeration<String> e = Collections.enumeration(arrayList);  
  
        // Enumerate through the ArrayList elements  
        System.out.println("ArrayList elements: ");  
        while(e.hasMoreElements())  
            System.out.println(e.nextElement());  
    }  
}
```

```
}
```

Output:

ArrayList elements:

C

C++

Java

DotNet

Perl