# Difference between ArrayList and LinkedList

ArrayList and LinkedList both implements List interface and maintains insertion order. Both are non synchronized classes.

But there are many differences between ArrayList and LinkedList classes that are given below.

ArrayList	LinkedList
1) ArrayList internally uses <b>dynamic array</b> to store the elements.	•
2) Manipulation with ArrayList is <b>slow</b> because it internally uses array. If any element is removed from the array, all the bits are shifted in memory.	<b>faster</b> than ArrayList because it uses doubly linked list so no
3) ArrayList class can <b>act as a list</b> only because it implements List only.	
4) ArrayList is <b>better for storing</b> and accessing data.	LinkedList is <b>better for manipulating</b> data.

## Example of ArrayList and LinkedList in Java

Let's see a simple example where we are using ArrayList and LinkedList both.

```
import java.util.*;
class TestArrayLinked{
public static void main(String args[]){
 List<String> al=new ArrayList<String>();//creating arraylist
 al.add("Ravi");//adding object in arraylist
 al.add("Vijay");
 al.add("Ravi");
 al.add("Ajay");
             List<String>
                                 al2=new
                                                 LinkedList<String>
();//creating linkedlist
 al2.add("James");//adding object in linkedlist
 al2.add("Serena");
 al2.add("Swati");
 al2.add("Junaid");
 System.out.println("arraylist: "+al);
```

```
System.out.println("linkedlist: "+al2);
}
}
```

#### **Test it Now**

#### Output:

```
arraylist: [Ravi,Vijay,Ravi,Ajay]
linkedlist: [James,Serena,Swati,Junaid]
```



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