**How to get sublist of an ArrayList with example**

[**JAVA COLLECTIONS**](http://beginnersbook.com/category/java-collections/)

In this tutorial we will see how to get a sublist from an existing ArrayList. We will be doing it using the [**subList**](http://docs.oracle.com/javase/7/docs/api/java/util/ArrayList.html#subList(int, int)) method of ArrayList class.

List subList(int fromIndex, int toIndex)

Here fromIndex is inclusive and toIndex is exclusive. There are few important points regarding this method which I have shared at the end of this post.

**Example of getting sub-list from an ArrayList**

Points to Note in the below example:  
The **subList method** returns a list therefore to store the sublist in another ArrayList we must need to type cast the returned value in same way as I did in the below example. On the other side if we are storing the returned sublist into a list then there is no need to type cast (Refer the example).

package beginnersbook.com;

import java.util.ArrayList;

import java.util.List;

public class SublistExample {

public static void main(String a[]){

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

//Addition of elements in ArrayList

al.add("Steve");

al.add("Justin");

al.add("Ajeet");

al.add("John");

al.add("Arnold");

al.add("Chaitanya");

System.out.println("Original ArrayList Content: "+al);

//Sublist to ArrayList

ArrayList<String> al2 = new ArrayList<String>(al.subList(1, 4));

System.out.println("SubList stored in ArrayList: "+al2);

//Sublist to List

List<String> list = al.subList(1, 4);

System.out.println("SubList stored in List: "+list);

}

}

Output:

Original ArrayList Content: [Steve, Justin, Ajeet, John, Arnold, Chaitanya]

SubList stored in ArrayList: [Justin, Ajeet, John]

SubList stored in List: [Justin, Ajeet, John]

**Note:**  
The subList method throws [**IndexOutOfBoundsException**](http://docs.oracle.com/javase/7/docs/api/java/lang/IndexOutOfBoundsException.html) – if the specified indexes are out of the range of ArrayList (fromIndex < 0 || toIndex > size).  
[**IllegalArgumentException**](http://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html) – if the starting index is greater than the end point index (fromIndex > toIndex).