

JAVA.UTIL.ARRAYLIST.ADD METHOD

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

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Description

The **java.util.ArrayList.add(int index, E element)** method inserts the specified element **E** at the specified position in this list. It shifts the element currently at that position *if any* and any subsequent elements to the right *will add one to their indices*.

Declaration

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

```
public void add(int index, E element)
```

Parameters

- **index** -- The index at which the specified element is to be inserted.
- **element** -- The element to be inserted.

Return Value

This method does not return any value.

Exception

- **IndexOutOfBoundsException** -- if the index is out of range.

Example

The following example shows the usage of **java.util.ArrayList.add(int index, E element)** method.

```
package com.tutorialspoint;

import java.util.ArrayList;

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

        // create an empty array list with an initial capacity
        ArrayList<Integer> arrlist = new ArrayList<Integer>(5);

        // use add() method to add elements in the list
        arrlist.add(15);
        arrlist.add(22);
        arrlist.add(30);
        arrlist.add(40);

        // adding element 25 at third position
        arrlist.add(2, 25);

        // let us print all the elements available in list
        for (Integer number : arrlist) {
            System.out.println("Number = " + number);
        }
    }
}
```

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

```
Number = 15
Number = 22
```

Number = 25
Number = 30
Number = 40

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