ArrayList class get method

This is 10th post in series of ArrayList class. Previously we have seen [ArrayList introduction](http://data-structure-learning.blogspot.com/2015/08/arraylist-class-introduction-and-how-it.html), ArrayList class [constructors](http://data-structure-learning.blogspot.com/2015/08/arraylist-class-constructors.html), [add](http://data-structure-learning.blogspot.com/2015/09/arraylist-class-add-methods.html)() method, [addAll](http://data-structure-learning.blogspot.com/2015/09/arraylist-class-addall-methods.html)() method, [clear](http://data-structure-learning.blogspot.com/2015/09/arraylist-class-clear-method.html)() method, [indexOf](http://data-structure-learning.blogspot.com/2015/09/arraylist-class-indexof-method.html)() method, [contains](http://data-structure-learning.blogspot.com/2015/09/arraylist-class-contains-method.html)() method and forEach() method.

In this post we see a simple method called get().

We saw in [ArrayList class](http://data-structure-learning.blogspot.com/2015/08/arraylist-class-introduction-and-how-it.html) introduction post that ArrayList class uses Object[] as backing array to store elements. As it uses array we can get element that index in array which we can also say that we can access the position of the array.

**package** org.example.collections.list.arraylist;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** ArrayListClassGetDemo {

**public** List<String> arrayListAdd() {

List<String> names = **new** ArrayList<String>();

names.add("Ned");

names.add("Catelyn");

names.add("Rob");

names.add("Arya");

names.add("Sansa");

**return** names;

}

**public** **static** **void** main(String[] args) {

ArrayListClassGetDemo getDemo = **new** ArrayListClassGetDemo();

List<String> names = getDemo.arrayListAdd();

getDemo.getDemo(names, 2);

//below call will throw IndexOutOfBoundsException

getDemo.getDemo(names, 6);

}

**public** **void** getDemo(List<String> names, **int** index) {

System.***out***.print("Element at index "+index+" is:: ");

System.***out***.println(names.get(index));

}

}

get() method returns the element from List if the index if less than size of list else it throw IndexOutOfBoundsException.

Output of above program:

Element at index 2 is:: Rob

Element at index 6 is:: Exception in thread "main" java.lang.IndexOutOfBoundsException: Index: 6, Size: 5

at java.util.ArrayList.rangeCheck(Unknown Source)

at java.util.ArrayList.get(Unknown Source)

at org.example.collections.list.arraylist.ArrayListClassGetDemo.getDemo(ArrayListClassGetDemo.java:28)

at org.example.collections.list.arraylist.ArrayListClassGetDemo.main(ArrayListClassGetDemo.java:23)

That’s all on get() method. In next post we will see isEmpty() method. isEmpty() method returns true if size of list is 0 else false.