

JAVA.LANG.CHARACTER.CODEPOINTAT METHOD

http://www.tutorialspoint.com/java/lang/character_codepointat_limit.htm

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Description

The **java.lang.Character.codePointAt***char[]a, intindex, intlimit* returns the code point at the given index of the char array, where only array elements with index less than limit can be used.

If the char value at the given index in the char array is in the high-surrogate range, the following index is less than the limit, and the char value at the following index is in the low-surrogate range, then the supplementary code point corresponding to this surrogate pair is returned. Otherwise, the char value at the given index is returned.

Declaration

Following is the declaration for **java.lang.Character.codePointAt** method

```
public static int codePointAt(char[] a, int index, int limit)
```

Parameters

- **a** - the char array
- **index** - the index to the char values *Unicodecodeunits* in the char array to be converted
- **limit** - the index after the last array element that can be used in the char array

Return Value

This method returns the Unicode code point at the given index.

Exception

- **NullPointerException** - if a is null.
- **IndexOutOfBoundsException** - if the index argument is negative or not less than the limit argument, or if the limit argument is negative or greater than the length of the char array.

Example

The following example shows the usage of lang.Character.codePointAt method.

```
package com.tutorialspoint;

import java.lang.*;

public class CharacterDemo {

    public static void main(String[] args) {

        // create a char array c and assign values
        char[] c = new char[] { 'a', 'b', 'c', 'd', 'e' };

        // create and assign value to inetgers index, limit
        int index = 1, limit = 3;

        // create an int res
        int res;

        // assign result of codePointAt on array c at index to res using limit
        res = Character.codePointAt(c, index, limit);

        String str = "Unicode code point is " + res;
```

```
// print res value
System.out.println( str );
    }
}
```

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

Unicode code point is 98

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