

Description

The **java.lang.Character.toChars**(*int* codePoint, *char*[] dst, *int* dstIndex) converts the specified character *Unicodecodepoint* to its UTF-16 representation.

If the specified code point is a BMP *BasicMultilingualPlaneorPlane0* value, the same value is stored in dst[dstIndex], and 1 is returned.

If the specified code point is a supplementary character, its surrogate values are stored in dst[dstIndex] *high – surrogate* and dst[dstIndex+1] *low – surrogate*, and 2 is returned.

Declaration

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

```
public static int toChars(int codePoint, char[] dst, int dstIndex)
```

Parameters

- **codePoint** - a Unicode code point
- **dst** - an array of char in which the codePoint's UTF-16 value is stored
- **dstIndex** - the start index into the dst array where the converted value is stored

Return Value

This method returns 1 if the code point is a BMP code point, 2 if the code point is a supplementary code point.

Exception

- **IllegalArgumentException** - if the specified codePoint is not a valid Unicode code point
- **NullPointerException** - if the specified dst is null
- **IllegalArgumentException** - if dstIndex is negative or not less than dst.length, or if dst at dstIndex doesn't have enough array elements to store the resulting char values.
IfdstIndexequaldst.length – 1andthespecifiedcodePointisasupplementarycharacter, thehigh – surrogatevalueisnotstoredindst[dstIndex].

Example

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

```
package com.tutorialspoint;

import java.lang.*;

public class CharacterDemo {

    public static void main(String[] args) {

        // create an int primitive cp and assign value
        int cp = 0x0036;

        // create an int primitive res
        int res;

        /**
         * create a char array dst and assign UTF-16 value of cp
         * to it using toChars method
         */
        char dst[] = Character.toChars(cp);

        // check if cp is BMP or supplementary code point using toChars
        res = Character.toChars(cp, dst, 0);

        String str1 = "It is a BMP code point";
        String str2 = "It is a is a supplementary code point";

        // print res value
```

```
    if ( res == 1 ){  
        System.out.println( str1 );  
    }  
    else if ( res == 2 ){  
        System.out.println( str2 );  
    }  
} }  
}
```

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

Tt is a BMP code point

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