

JAVA EXAMPLES - CALCULATING FACTORIAL

http://www.tutorialspoint.com/javaexamples/method_factorial.htm

Copyright © tutorialspoint.com

Problem Description:

How to use method for calculating Factorial of a number?

Solution:

This example shows the way of using method for calculating Factorial of *9*nine numbers.

```
public class MainClass {
    public static void main(String args[]) {
        for (int counter = 0; counter <= 10; counter++){
            System.out.printf("%d! = %d\n", counter,
                factorial(counter));
        }
    }
    public static long factorial(long number) {
        if (number <= 1)
            return 1;
        else
            return number * factorial(number - 1);
    }
}
```

Result:

The above code sample will produce the following result.

```
0! = 1
1! = 1
2! = 2
3! = 6
4! = 24
5! = 120
6! = 720
7! = 5040
8! = 40320
9! = 362880
10! = 3628800
```

Loading [Mathjax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js