

## LGF\_GetFactorial

### Short description

The function calculates the faculty of a natural number.

### Block



### Input parameters

Parameters	Data type	Description
naturalNumber	INT	Natural number (0..12)

### Output parameters

Parameters	Data type	Description
Ret_Val	DINT	Calculated faculty
error	BOOL	FALSE: No error TRUE: An error occurred during the execution of the FB.
status	WORD	16#0000-16#7FFF: Status of the FB, 16#8000-16#FFFF: Error identification (see following Table).

### Status and error displays

Status	Meaning	Remedy / notes
16#0000	No error	-
16#8101	Wrong value range for input parameter "naturalNumber".	Enter a value between 0 and 12.

### Principle of operation

The function calculates the faculty of a natural number. The permissible value range of the input parameter "naturalNumber" is between 0 and 12.

**Further information on libraries in TIA Portal:**

- Topic page libraries  
<https://support.industry.siemens.com/cs/ww/en/view/109738702>
- Guideline on Library Handling  
<https://support.industry.siemens.com/cs/ww/en/view/109747503>
- Programming Guideline for S7-1200/1500 in chapter "Libraries"  
<https://support.industry.siemens.com/cs/ww/en/view/81318674>
- Programming Styleguide  
<https://support.industry.siemens.com/cs/ww/en/view/81318674>