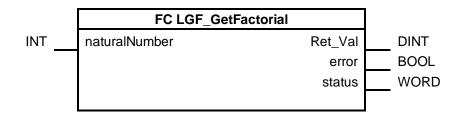
LGF_GetFactorial

Short description

The function calculates the faculty of a natural number.

Block



Input parameters

Parameters	Data type	Description
naturalNumber	INT	Natural number (012)

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