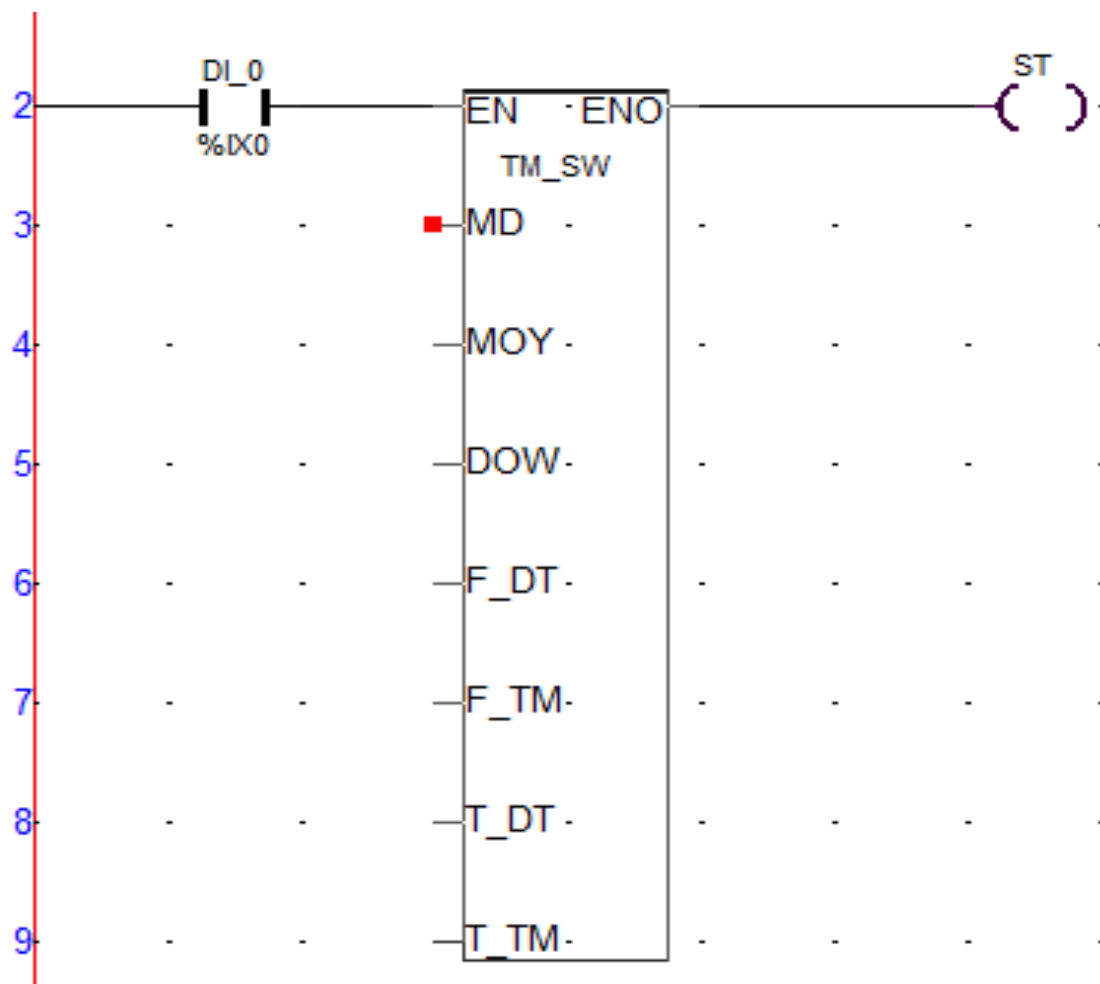


Time Switch

1. Double click on the register to which you want to assign variable



2. Variable description for adding variables :

Input :

Signal	Data type	Description
EN	BOOL	Enables block operation
MD	UINT	Mode of operation
SEL_MOY	UINT	set Month of year
SEL_DOW	UINT	set Day of week
F_DATE	DATE	From Date
F_TIME	TOD	From Time
T_DATE	DATE	To Date
T_TIME	TOD	To Time

Output :

Signal	Data type	Description
ENO	BOOL	Indicates completion of operation

Time switch can be operated in mode 0, 1, 2 or 3

Mode	Description
0	In Mode 0, Time Switch would only check F_Date, F_TIME, T_Date and T_Time with RTC's Date and Time, SEL_MOY and SEL_DOW would not be considered. If RTC's Date and Time is within the specified From and To Date and Time, then ENO would be high otherwise it would be low
1	In Mode 1, Time Switch would check SEL_DOW, F_DATE, F_TIME, T_DATE and T_TIME with RTC's Date and Time, SEL_MOY would not be considered. If RTC's DOW, Date and Time is within the specified DOW, From and To Date and Time then ENO would be high otherwise it would be low
2	In Mode 2, Time Switch would check SEL_MOY, F_DATE, F_TIME, T_DATE and T_TIME with RTC's Date and Time, SEL_DOW would not be considered. If RTC's MOY, Date and Time is within the specified MOY, From and To Date and Time then ENO would be high otherwise it would be low
3	In Mode 3, Time Switch would check SEL_DOW, SEL_MOY, F_DATE, F_TIME, T_DATE and T_TIME with RTC's Date and Time. If RTC's DOW, MOY, Date and Time is within the specified DOW, MOY, From and To Date and Time then ENO would be high otherwise it would be low

Select Month of year : The table given below explains the value to which SEL_MOY variable is to be initialized as per the month selected

Sr No.	Month to be selected	Status of Bits from D11D10D9D8D7D6D5D4D3D2D1D0	Decimal equivalent of binary status from D11-D0
1	January (D0)	000000000001	1
2	February (D1)	000000000010	2
3	March (D2)	000000000100	4
4	April (D3)	000000001000	8
5	May (D4)	000000010000	16
6	June (D5)	000000100000	32
7	July (D6)	000001000000	64
8	August (D7)	000010000000	128
9	September (D8)	000100000000	256
10	October (D9)	001000000000	512
11	November (D10)	010000000000	1024
12	December (D11)	100000000000	2048

Example : If Time Switch block's output pin should be high in the month of May and September then D4 and D8 bits are to be set high and remaining bits are to be set low. The binary status of bits from D11-D0 would be 0001000100000. Decimal equivalent of this binary number is 272. So SEL_MOY variable should be assigned 272.

Note: SEL_MOY variable enabled only in mode 1 and 3

Select Day of Week: The table given below explains the value to which SEL_DOW variable is to be initialized as per the day selected

Sr No.	Day to be selected	Status of Bits from D6D5D4D3D2D1D0	Decimal equivalent of binary status from D6-D0
1	Monday (D0)	0000001	1
2	Tuesday (D1)	0000010	2
3	Wednesday (D2)	0000100	4
4	Thursday (D3)	0001000	8
5	Friday (D4)	0010000	16
6	Saturday (D5)	0100000	32
7	Sunday (D6)	1000000	64

Example: If Time Switch block's output pin should be high every Tuesday and Saturday then D1 and D5 bits are to be set high and remaining bits are to be set low. The binary status of bits from D6-D0 would be 0100010. Decimal equivalent of this binary number is 34. So SEL_MOY variable should be assigned 34.

Note: SEL_DOW variable enabled only in mode 2 and 3

F_DATE: From Date

F_TIME: From Time

T_DATE: To Date

T_TIME: To Time

Below is the format to enter the initial value while adding the register

DATE	-	D#1994-06-14 or DATE#1994-06-14	Variable will be initialized with date 14 th June 1994
TOD	-	TOD#10:10:30 or TIME_OF_DAY#10:10:30	Variable will be initialized with TOD 10 o'clock 10 minutes and 30 seconds

Example :

Scope:	Global	OK	Cancel
Select Variable:	GVar12	Edit Variable	Help

Variable Name:	GVar12	Address:	%ID1
Variable Type:	VAR_INPUT	Initial Value:	D#1994-6-14
Data Type:	DATE		
Retention:	NO		
Description:			

3. After Adding register

