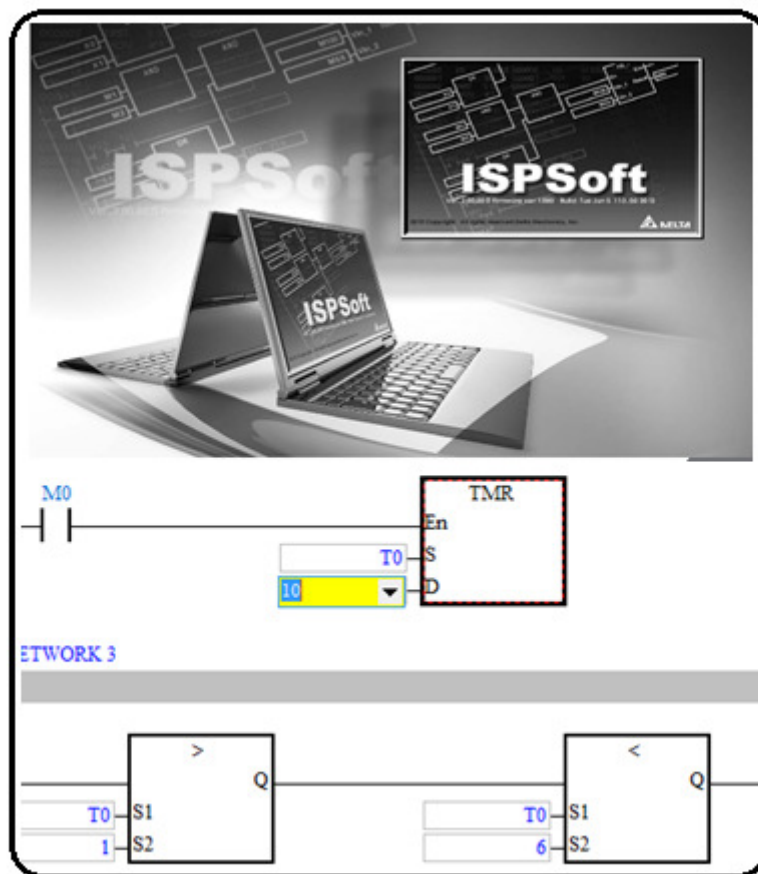


Industrial Automation - PLC

Applications of Timers with Comparisons Instructions



Demonstration a Program in Ladder Programming on ISPSOft Software for DELTA PLC.
Assume all the Push Buttons are “NO” Normally Open. Program should work as below.

Sr. No.	Input	Output	Other Status
1	If X0 is Pressed	Y0 Continuously ON- OFF	
2	If X1 is Pressed	Y1 Continuously ON- OFF	Y0 - ON
3	If X2 is Pressed	Y2 Continuously ON- OFF	Y0, Y1, - ON
4	If X3 is Pressed	Y3 Continuously ON- OFF	Y0, Y1, Y2 - ON

This is Total 16 Networks Program. But we will discuss Step by Step for Each Network .
So Program is divided by Four Parts as below.

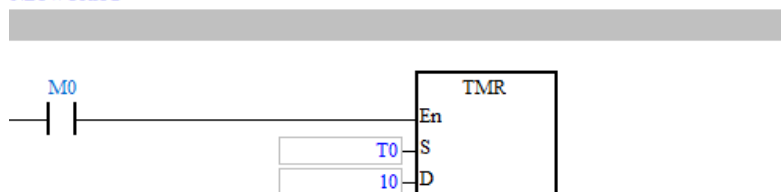
Part 1:

- Network 1) When **X0** is Pressed, **M0** Memory Bit
- Network 2) **M0** Enable to On Timer **T0** (Destination Up to 10).
- Network 3) When Value of **T0** is in between (1 to 6) . **Y1** – ON else **Y1** – OFF
- Network 4) **T0** Reset when time elapsed.

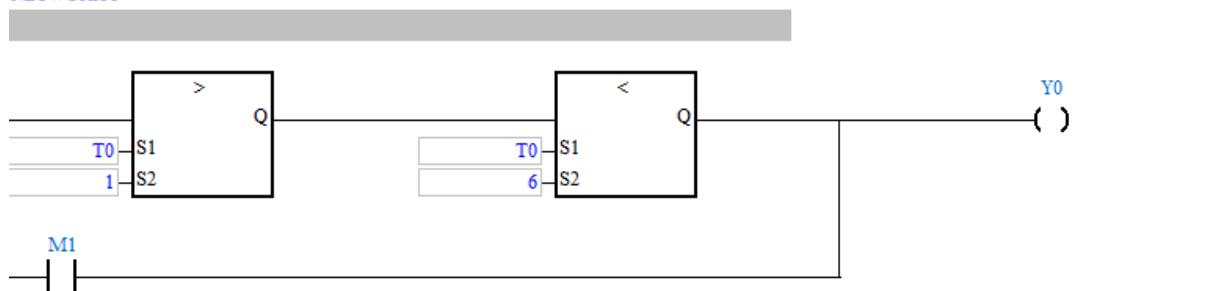
NETWORK 1



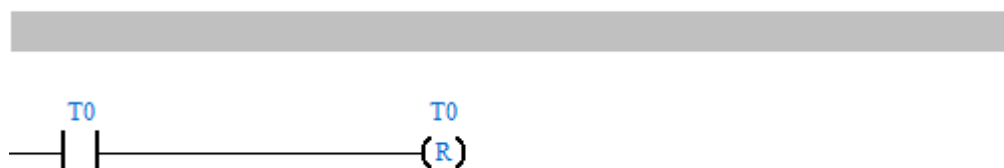
NETWORK 2



NETWORK 3



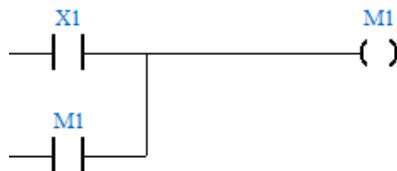
NETWORK 4



Part 2:

- Network 5) When **X1** is Pressed, **M1** Memory Bit , and **Y0** - ON
- Network 6) **M1** Enable to On Timer **T1** (Destination Up to 10).
- Network 7) When Value of **T1** is in between (1 to 6) . **Y1** – ON else **Y1** – OFF
- Network 8) **T1** Reset when time elapsed.

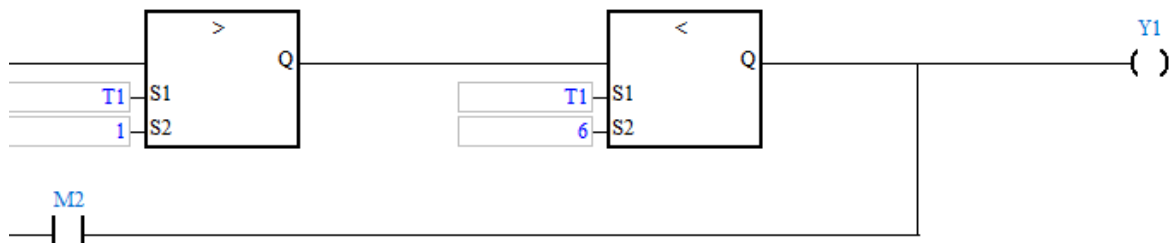
NETWORK 5



NETWORK 6



NETWORK 7



NETWORK 8



Part 3:

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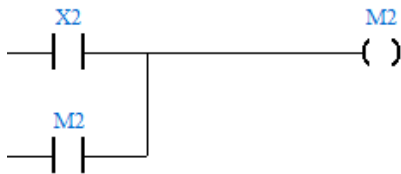
Network 9) When **X2** is Pressed, **M2** Memory Bit , and **Y1** - ON

Network 10) **M2** Enable to On Timer **T2 (Destination Up to 10)**.

Network 11) When Value of **T2** is in between (1 to 6) . **Y2** – ON else **Y2** – OFF

Network 12) **T2** Reset when time elapsed.

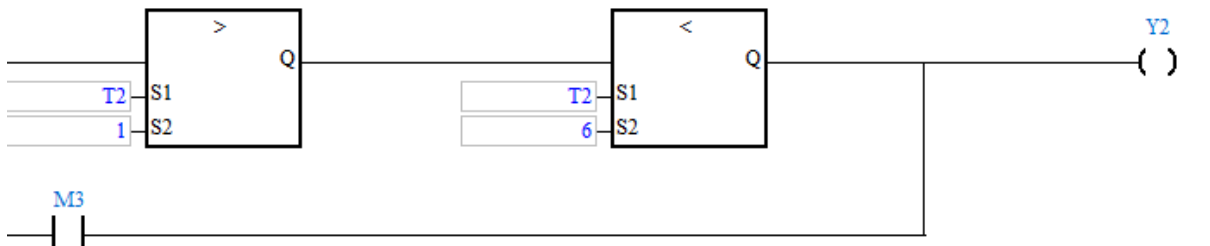
NETWORK 9



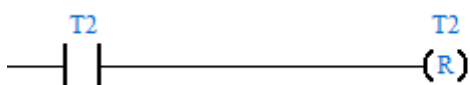
NETWORK 10



NETWORK 11



NETWORK 12



Part 4:

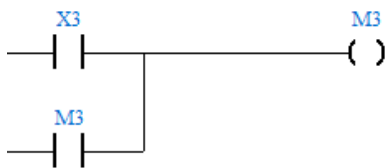
Network 13) When **X3** is Pressed, **M3** Memory Bit , and **Y2 - ON**

Network 14) **M3** Enable to On Timer **T3 (Destination Up to 10)**.

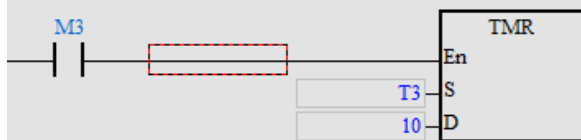
Network 15) When Value of **T3** is in between (1 to 6) . **Y3 – ON** else **Y3 – OFF**

Network 16) **T3** Reset when time elapsed.

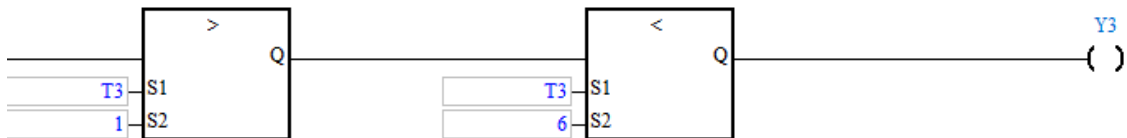
NETWORK 13



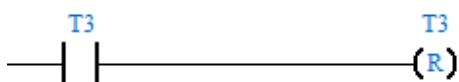
NETWORK 14



NETWORK 15



NETWORK 16



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