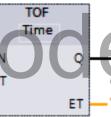
Siemens S7-1200

CPU 1212C AC/DC/Relay

Timer Operations (TOF)

Off-Delay

Exercise Example



"Timer 2"





Learning Made Easy

www.codeandcompile.com



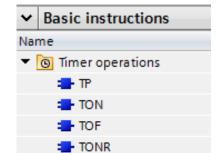
Timer Operations in LAD – TOF (OFF Delay Timer)

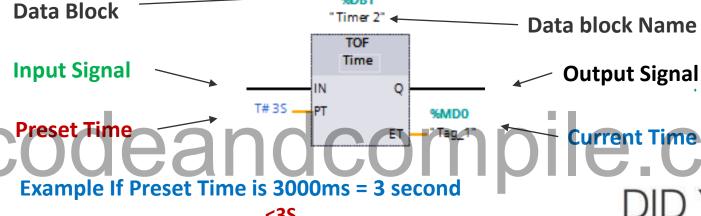


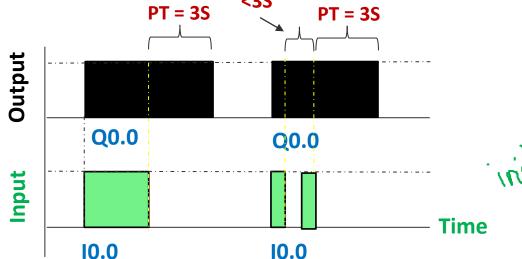


STREET

The **TOF** timer sets the output (Q) to ON and then resets the output to OFF after a preset time delay.







• Changing PT has no effect while the timer runs.

KNOW

 Changing IN to TRUE, while the timer runs, resets and steps the timer.

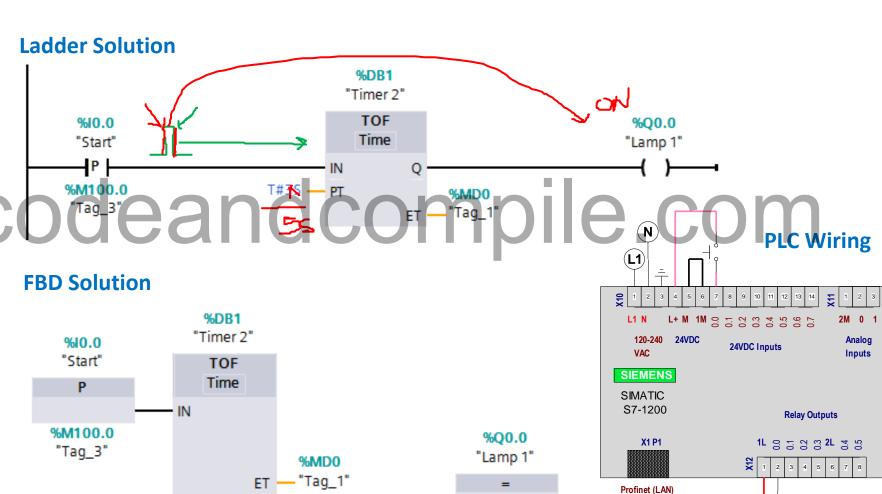
STREETS

Exercise Example

T#3S - PT



Write a Logic to Latch the output Q0.0 for 5 seconds with momentary input signal I0.0



Ethernet Port

(L1)



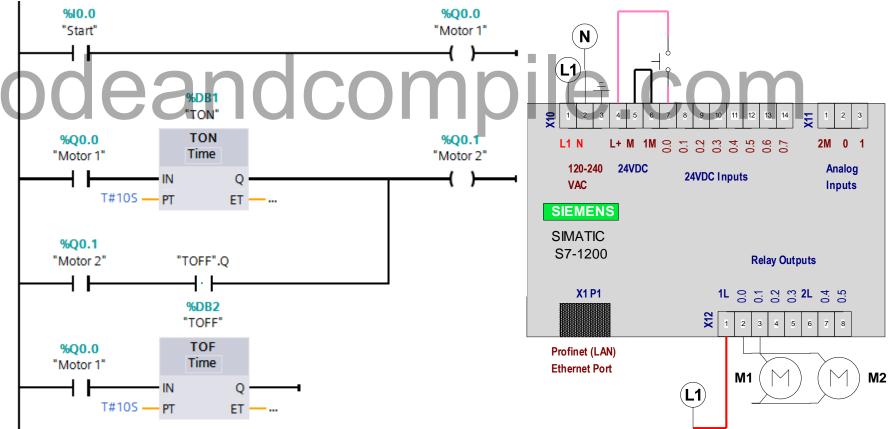
Exercise Example



Write a logic to achieve the following objective:

- Start a Motor 1 (Q0.0) with 10.0 (0 1) and after 10s delay start a Motor 2 (Q0.1)
- Stop the Motor 1 (Q0.0) with 10.0 (1-0) and after 10s delay stop the Motor 2 (Q0.1)

Ladder Solution PLC Wiring



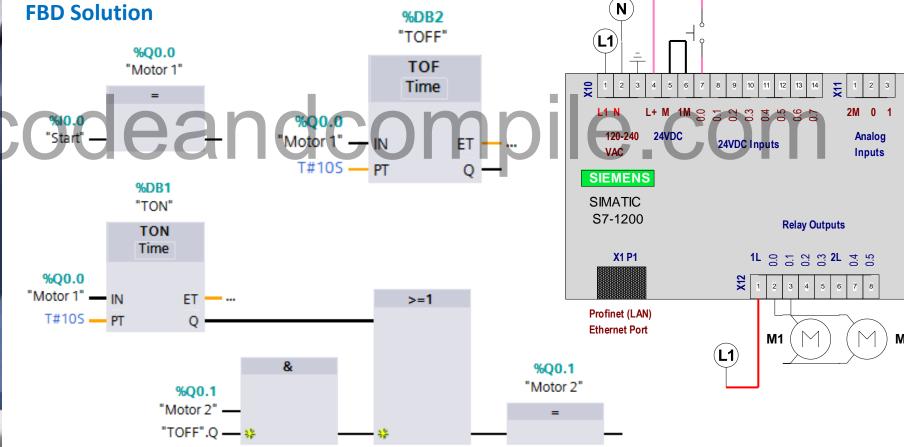
STREETS

Exercise Example



Write a logic to achieve the following objective:

- Start a Motor 1 (Q0.0) with I0.0 (0 1) and after 10s delay start a Motor 2 (Q0.1)
- Stop the Motor 1 (Q0.0) with I0.0 (1 0) and after 10s delay stop the Motor 2 (Q0.1)



What did we learn in this lesson?

- **TOFF** is used to generate **OFF** delay only.
- The parameters of TOFF are stored in Data **block** which can be accessed anywhere in the logic by using the **specific address**.

Thank you

Get copy of this presentation in the course!



