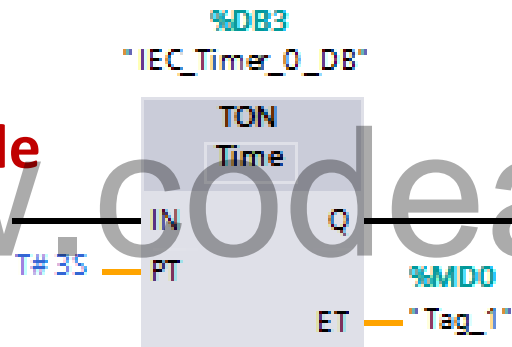


Siemens S7-1200

CPU 1212C AC/DC/Relay

Timer Operations (TON)

- On-Delay
- **Exercise Example**



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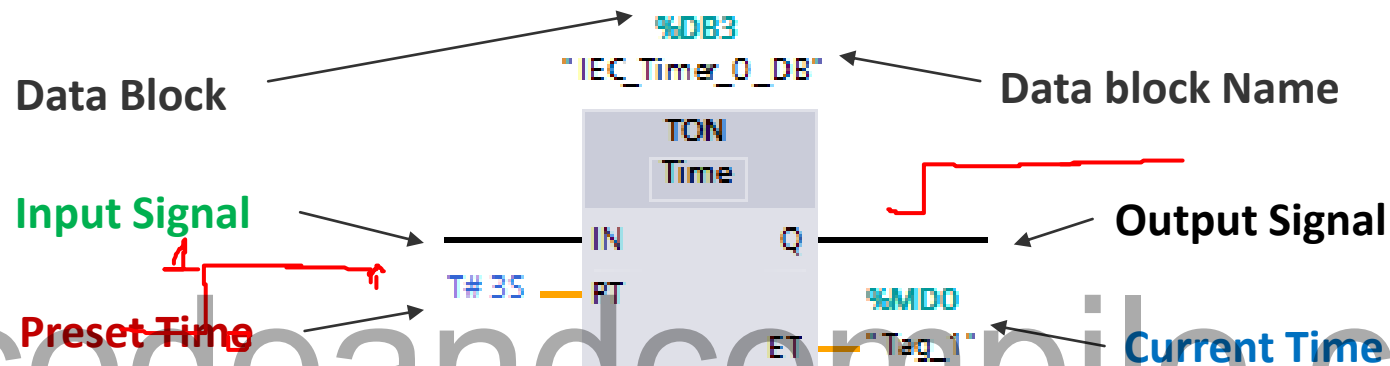
Timer Operations in LAD – TON (On- Delay Timer)



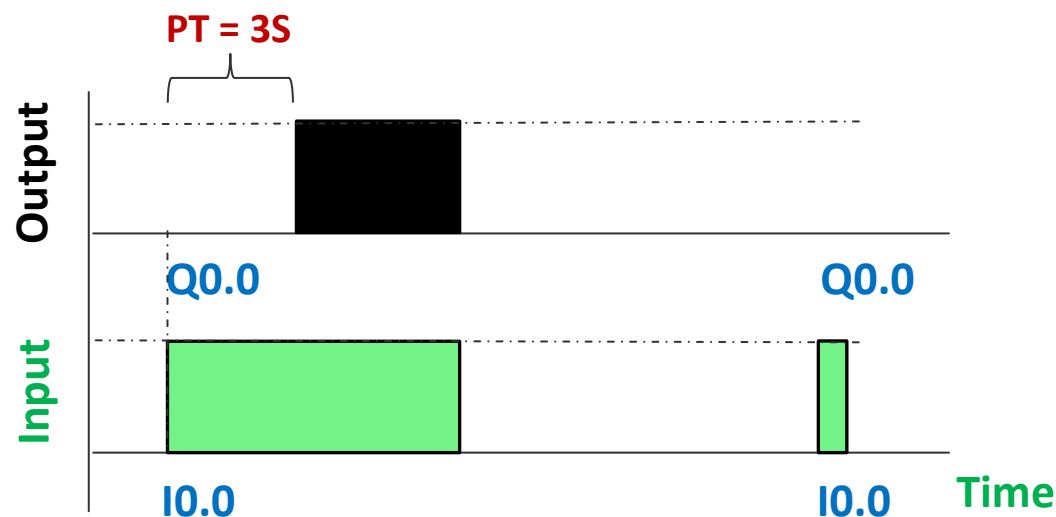
On-Delay Timer

The TON timer sets the **output (Q)** to **ON** after a **preset time delay**.

Basic instructions
Name
Timer operations
TP
TON
TOF
TONR



Example If Preset Time is 3000ms = 3 second



DID YOU
KNOW

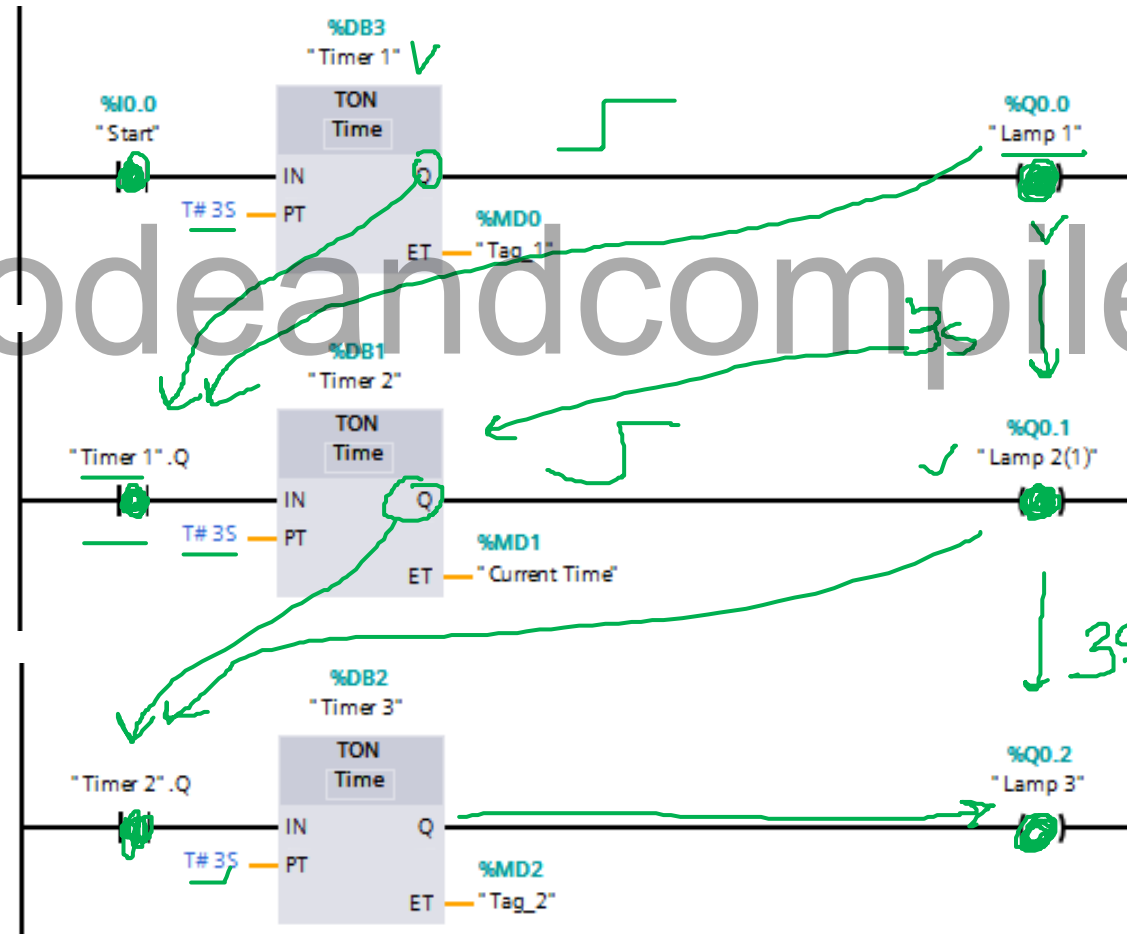


- Changing **PT** has **no effect** while the **timer runs**.
- Changing **IN** to **FALSE**, while the **timer runs**, **resets** and **stops** the timer.

Exercise Example

Write a Logic to generate ~~continuous pulse~~ output at Q0.0, Q0.1 and Q0.2 in sequence with delay of 3 seconds each.

Ladder Solution

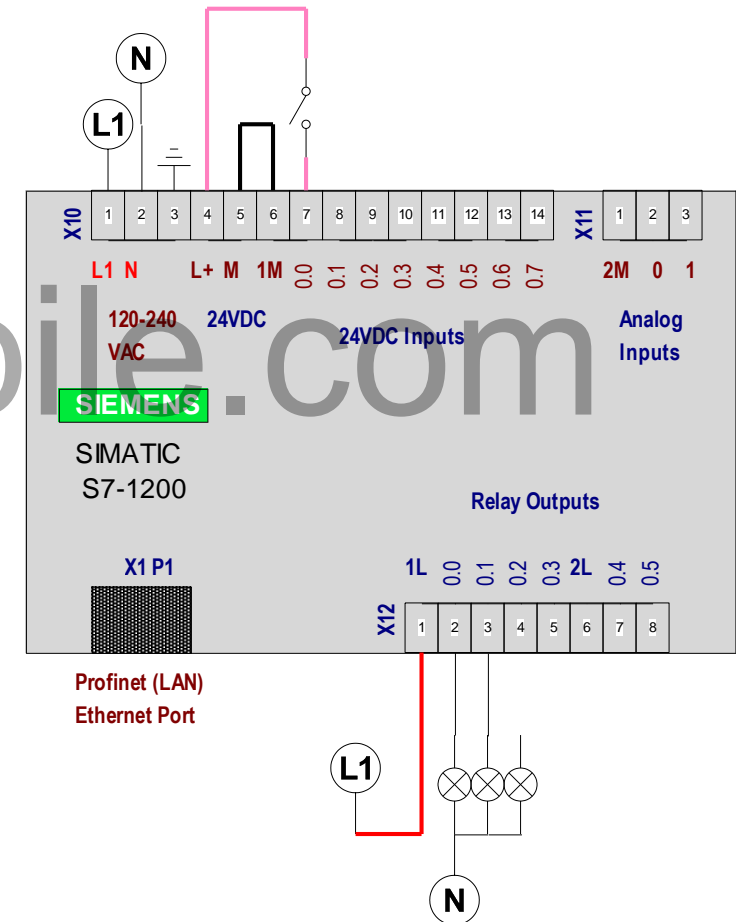
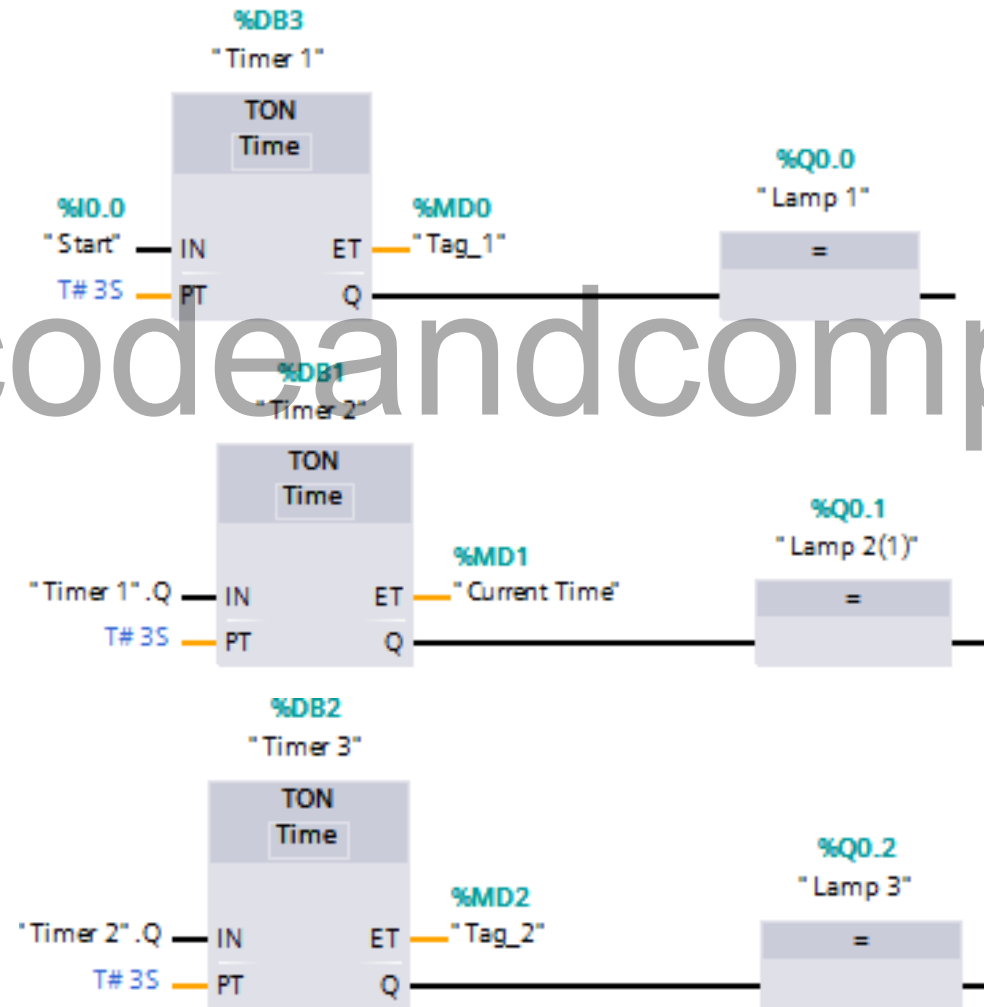


Exercise Example



Write a Logic to generate continuous pulse output at Q0.0, Q0.1 and Q0.2 in sequence with delay of 3 seconds each.

FBD Solution



What did we learn in this lesson?

- **TON** is used to generate **ON delay** only.
- We can use **multiple TON** in our logic to **generate sequence of Logic**
- The **parameters of TON** are stored in **Data block** which can be accessed anywhere in the logic by using the **specific address**.

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Thank you

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