Siemens S7-1200

CPU 1212C AC/DC/Relay

Timer Operations (TP)

Pulse Timer

Exercise Example

"IEC_Timer_0_ DB_1"

%DB2

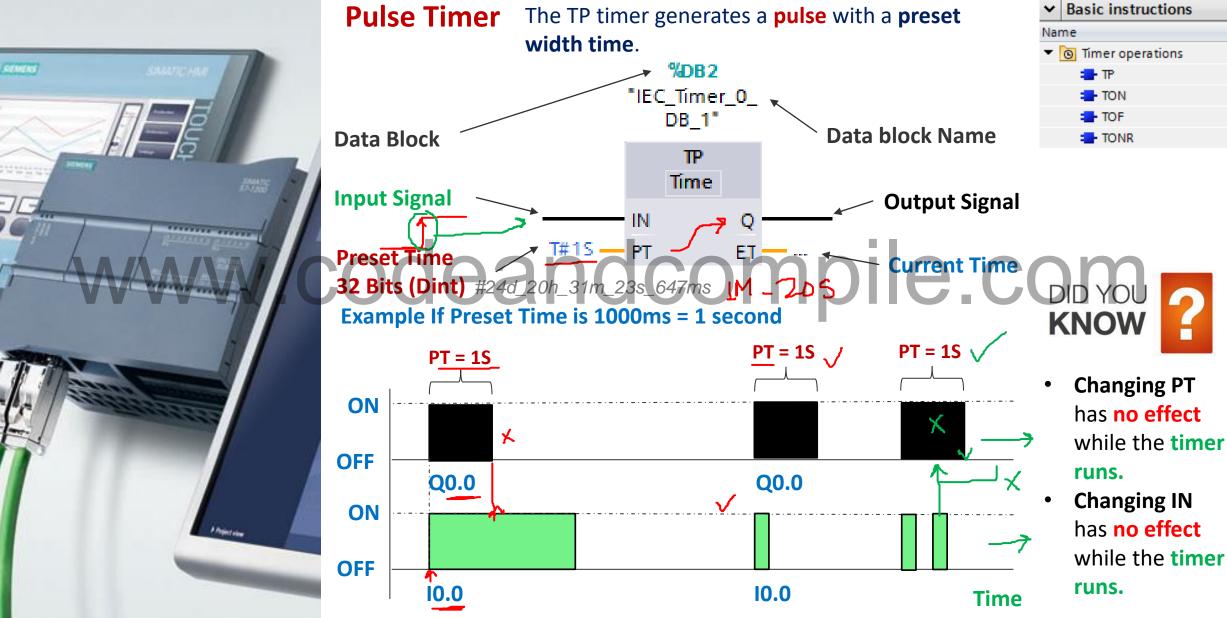






Timer Operations in LAD – TP (Generate Pulse) Pulse Timer. The TP timer generates a pulse with a preset

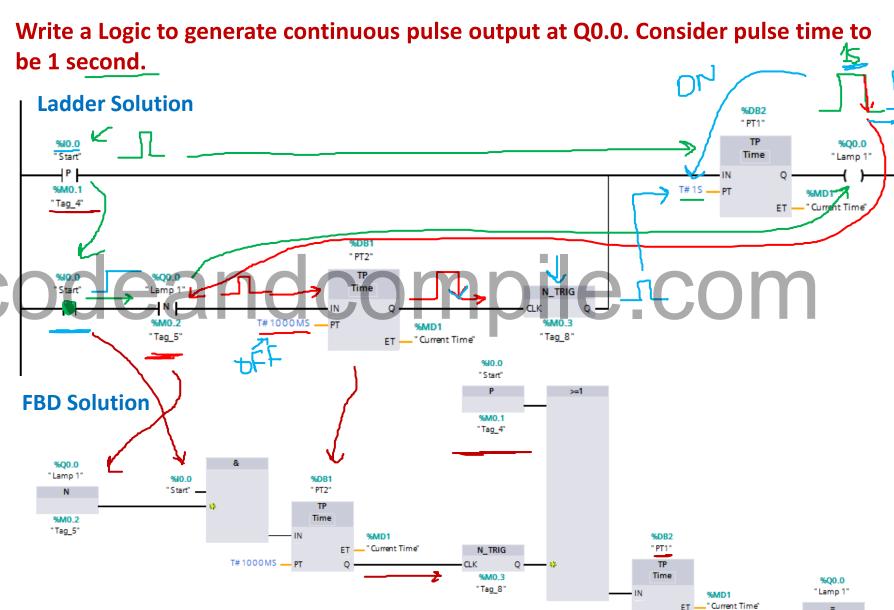




SERVING

Exercise Example



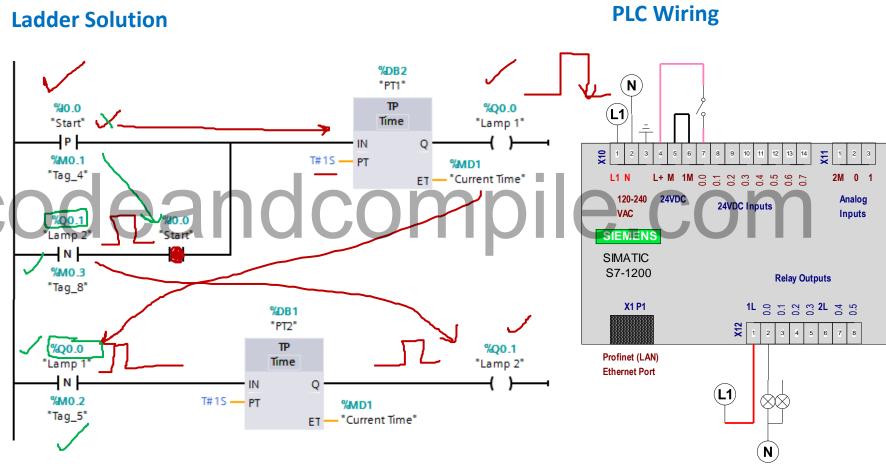




Exercise Example



Write a Logic to generate continuous pulse output at Q0.0 and Q0.1 with I0.0. Consider pulse time to be 1 second.





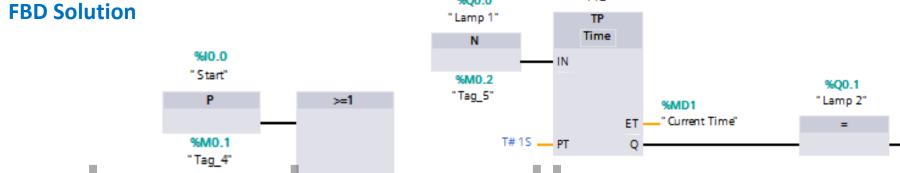
Exercise Example



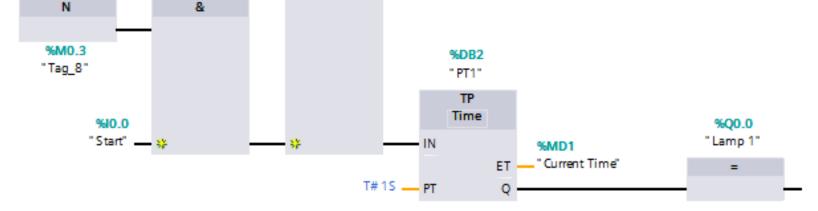
Write a Logic to generate pulse output at Q0.0 and Q0.1 with I0.0. Consider pulse

time to be 1 second.

**OB1
PT2



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What did we learn in this lesson?

- You can use the "Generate pulse" instruction to set the output Q for a programmed duration.
- The instruction is started when the result of logic operation (RLO) at input IN changes from "0" to "1" (positive signal edge).
- The programmed time PT begins when the instruction starts. Output Q is set for the duration PT, regardless of the subsequent course of the input signal
- When the duration PT is reached and the signal state at input IN is "0", the ET output is reset.

Thank you

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