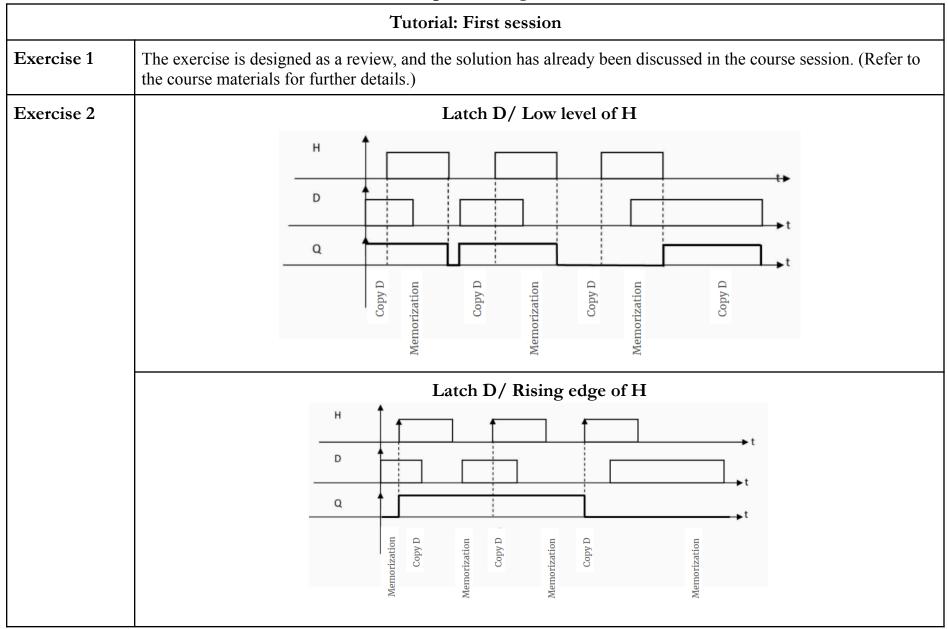
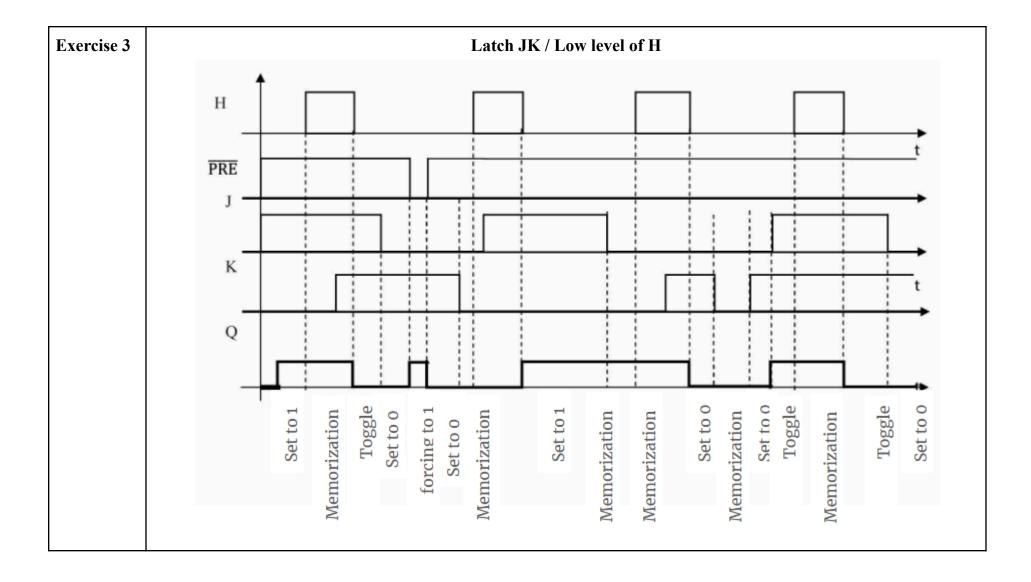
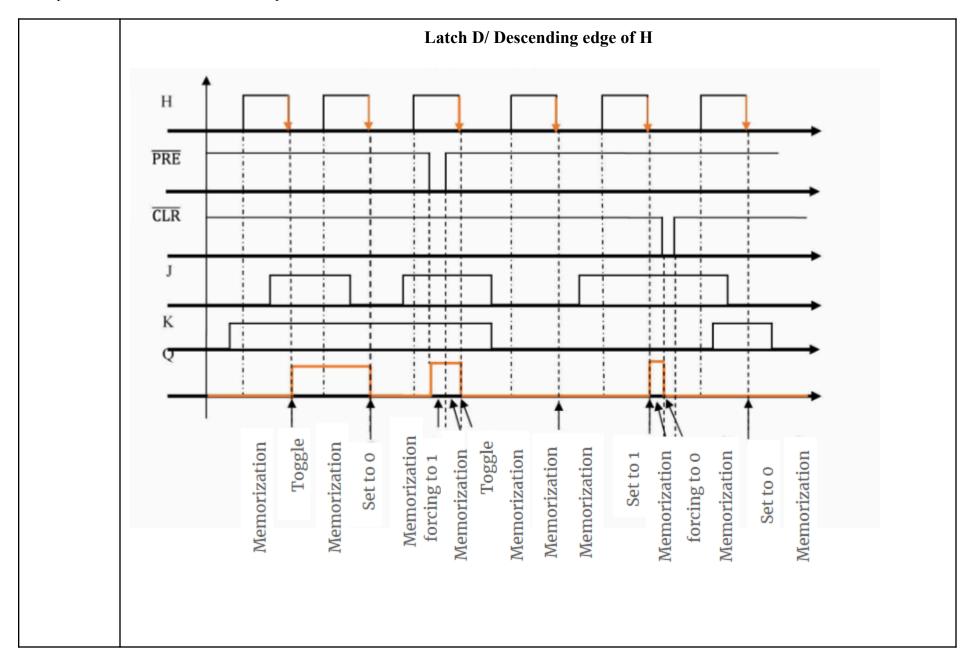
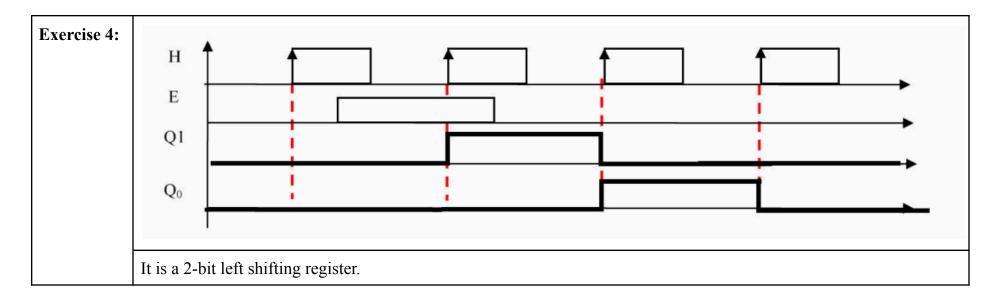
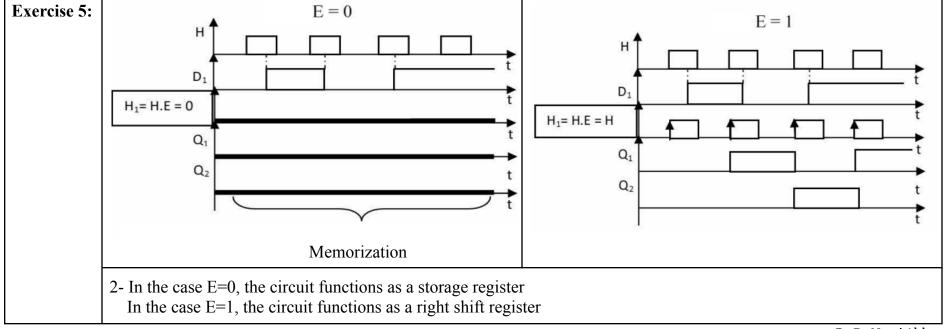
## Sequential Logic



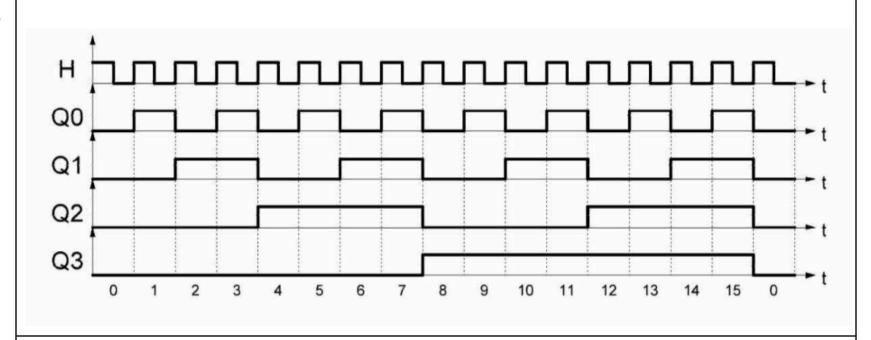






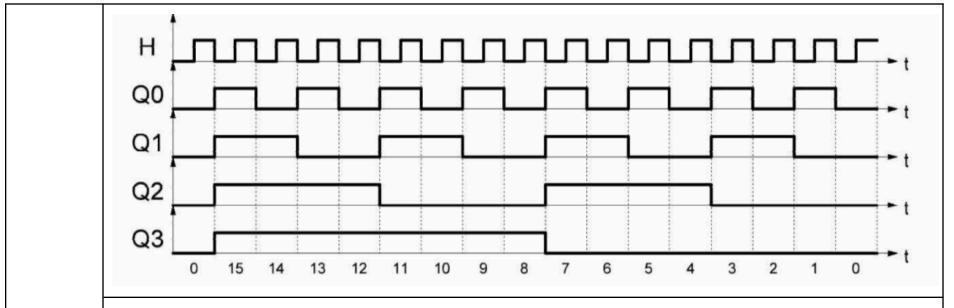


## **Exercise 6**



This circuit is an asynchronous counter modulo 16. It counts from 0 to 15

The gate NAND is used to detect the value 12 and replace it with the value  $0 \Rightarrow$  the new circuit is an asynchronous counter modulo 12. It counts from 0 to 11.



This circuit is a modulo 16 asynchronous decrement counter. It countdown from 15 to 0.

