Quiz 6

Synthesis of Synchronous Sequential Logic Circuits



A pattern detector which gives 1 at its 1-bit output when the last four values of its 1-bit input are 1001 will be designed. The detected streams will not overlap. T type rising edge triggered flip-flops, AND (VE), OR (VEYA) and NOT (TÜMLEME) gates will be used for the implementation. $(Q = T \oplus q)$

- 1) Draw the Moore type state diagram.
- 2) Draw the state table using binary encoding of the states (00, 01, 10, ...).