

**Theory of Computation**  
**Course Code: 10B11CI513**  
**Tutorial-4**

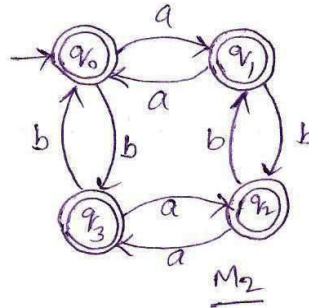
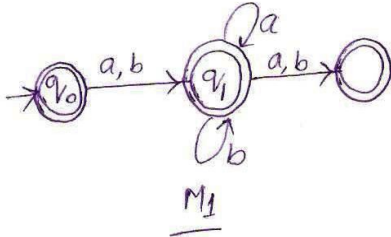
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Q1. Construct an FA accepting all strings over  $\{0, 1\}$  ending with either 010 or 0010.

Q2. If  $L_1 = \{s_1 \in (a, b)^*\}$  and  $L_2 = \{s_2 \in (a, b)^+\}$  draw FA for  $L = L_1 L_2$

Q3. Draw FA for all strings over  $\{0, 1\}$  consisting 010 or 111 as substring.

Q4. Prove or disprove whether following FA  $M_1$  and  $M_2$  are equivalent.



Q5. Use equivalence method to minimize the given FA

