DFA:

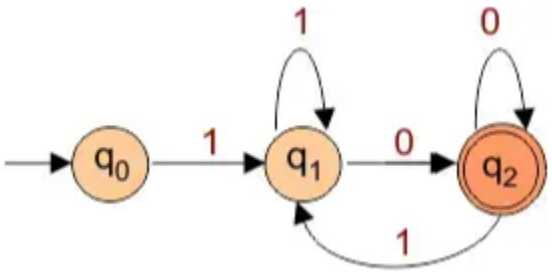
1. Draw a DFA for the language accepting strings starting with '101' over input alphabets ∑ = {0, 1}
2. Construct a DFA that accepts a language L over input alphabets ∑ = {a, b} such that L is the set of all strings starting with 'aa' or 'bb'.
3. Draw a DFA for the language accepting strings ending with '011' over input alphabets ∑ = {0, 1} ? Then draw the transition diagram for the DFA.

NFA:

1. Design a NFA for the transition table as given below:

Present State	0	1
→q0	q0, q1	q0, q2
q1	q3	ε
q2	q2, q3	q3
→q3	q3	q3

2. Design an NFA with Σ = {0, 1} accepts all string in which the third symbol from the right end is always 0.
3. Construct an NFA with ∑ = {0, 1}, where each string must contain either "01" or "10".



4. Draw the Transition Table for the above NFA