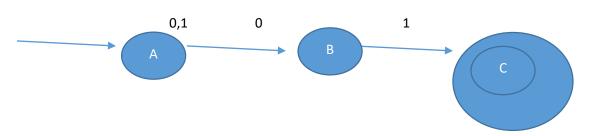
Construct a NFA
 Construct a NFA that accepts sets of all strings over {0,1} that starts with '10'

2. Convert of NFA to DFA

Given below is NFA for a language

L={set of all strings over (0,1) that ends with '01'}. Construct its equivalent DFA

NFA



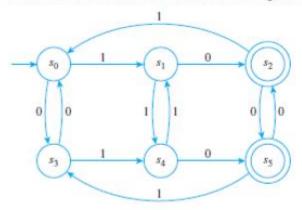
3.

(a) design an automaton with the given input alphabet that accepts the given set of strings, and(b) find a regular expression that defines the language accepted by the automaton.

Input alphabet = {a, b}; Accepts the set of all strings that contain exactly two b's.

4.

Consider the finite-state automaton A given by the following transition diagram:



- a. Find the 0-, 1-, and 2-equivalence classes of states of A.
- b. Draw the transition diagram for \overline{A} the quotient automaton of A.

5.

Are the automata A and A'shown below equivalent?

