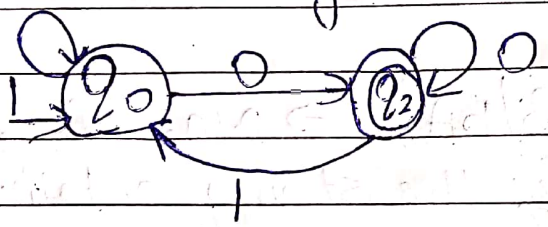
Sec → 7

(Q3) Construct a DFA for the language that contains the strings ending with 0. Eleminated unit production in gramm ar. S → A/bb A → B/b B → S/a

Soln Let string be {0}, {1,0}, {0,0}, {1,0} etc.



$Q = \{q_0, q_2\}$

$\Sigma = \{0, 1\}$

$q_0 = \{q_0\}$

$F = \{q_2\}$

δ in diagram.

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A grammer or phrase structured is combination of four tuples & can be represented as (G(V, T, P, S)
where,
V – V is a finite non-empty set of variable / non-terminals.
T – T is a finite non-empty set of terminals.
P – P are called production or production rule or writting rules.
S – S is special variable / non-termind know as starting symbol.