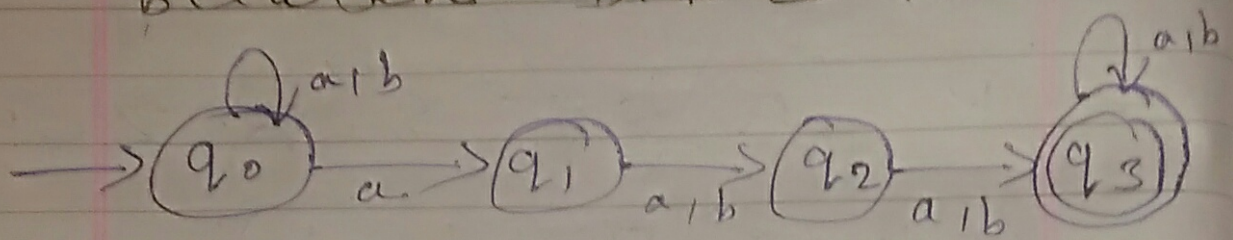


# SEC-5

- ② Construct a NFA for the language  $L$  which accept all the string in which the third symbol from right end is always a over  $\Sigma = (a, b)$ . Difference between DFA & NFA.



Difference. —

DFA	NFA
i) It stands for deterministic finite automata.	It stands for non-deterministic finite automata.
ii) Transition function $\delta: Q \times \Sigma \rightarrow Q$	Transition function $\delta: Q \times (\Sigma \cup \{\epsilon\}) \rightarrow 2^Q$
iii) In DFA, $\epsilon$ -transition is not possible.	In NFA, $\epsilon$ -transition is possible.
iv) can't converted into NFA	can be converted into DFA