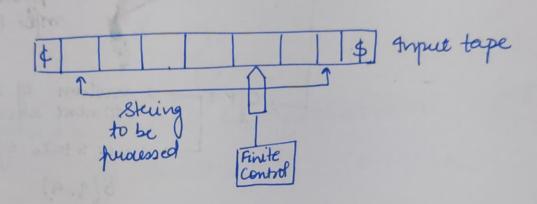
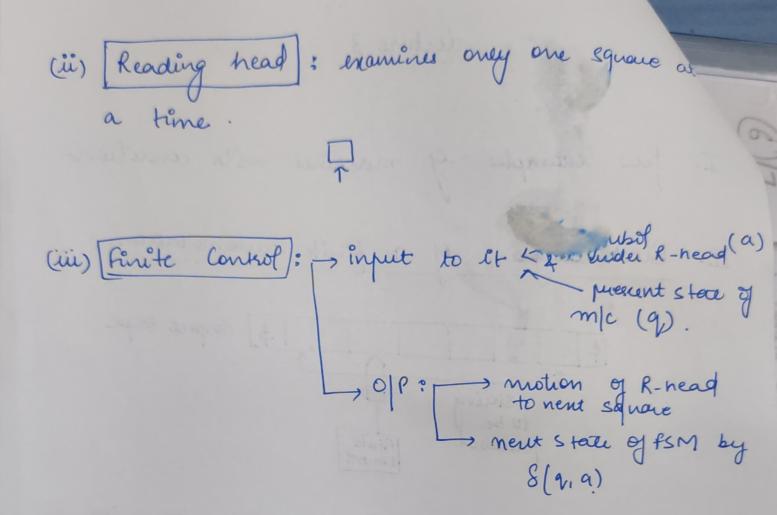
decture 3

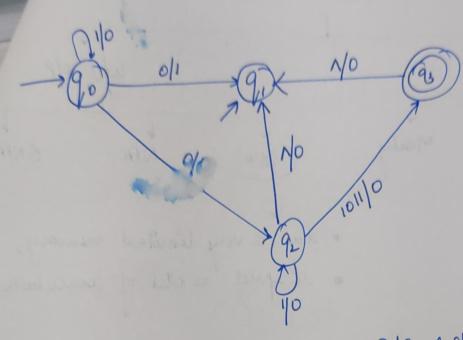
- I. few examples of macrines with conditions
- II. Block auguan of a finite automatation.;



- (i) Imput tape: divided into squares, each square containing a single symbol from the input alphabet Ξ .
 - ¢: end mærker at the left.
 - \$: end marker at the right.
 - → absence of end markers indicates the tape is of infinite length.
 - → segneuce is from L → R.



- *. A transition system (S) accepts a string w in \mathcal{E}^* if
 - (i) true enests à pour verien originates from some initial state, ---> 2 terrainates at some final State.
 - (ii) the Poter value Obtained by concatanon = W.



Determine (i initial state, Ofinal sterres

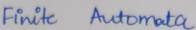
3 101011 9 111010

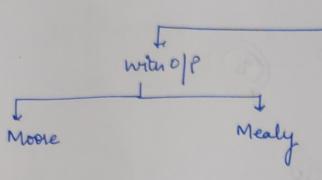
Ans: 1 9,0 2 9,1

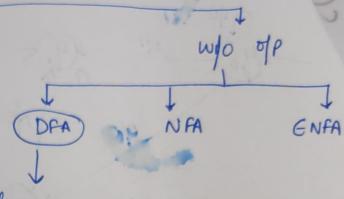
(2) 93

390909293

State Cuaje hundi de?

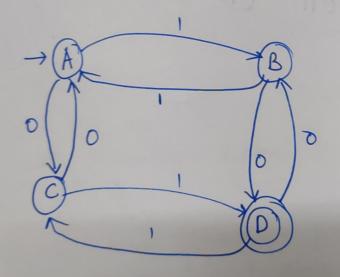






- · has a very limited memory.
 · simplest model of commutation.

ages are transition



$$S(A, \mathbf{1}) \rightarrow B$$
 State
 $S(B, 0) \rightarrow D$

$$9,0 = A$$

$$F = D$$

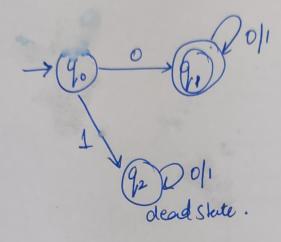
$$Q = \{A,B,C,D\}$$

Ĭ	0	1
A	C	B
В	D	A
C	A	D
D	B	C

: 8: QXE->Q

ramples :

1) L1 = set og ave strings start with o! = {0,00,01,000,011,0000...}



eg:- 001 is accepted or not.

101

2) Sonstruct a DFA dual accepts all strings our 0,1 of length 2.

dg = { 00,01,10,11}