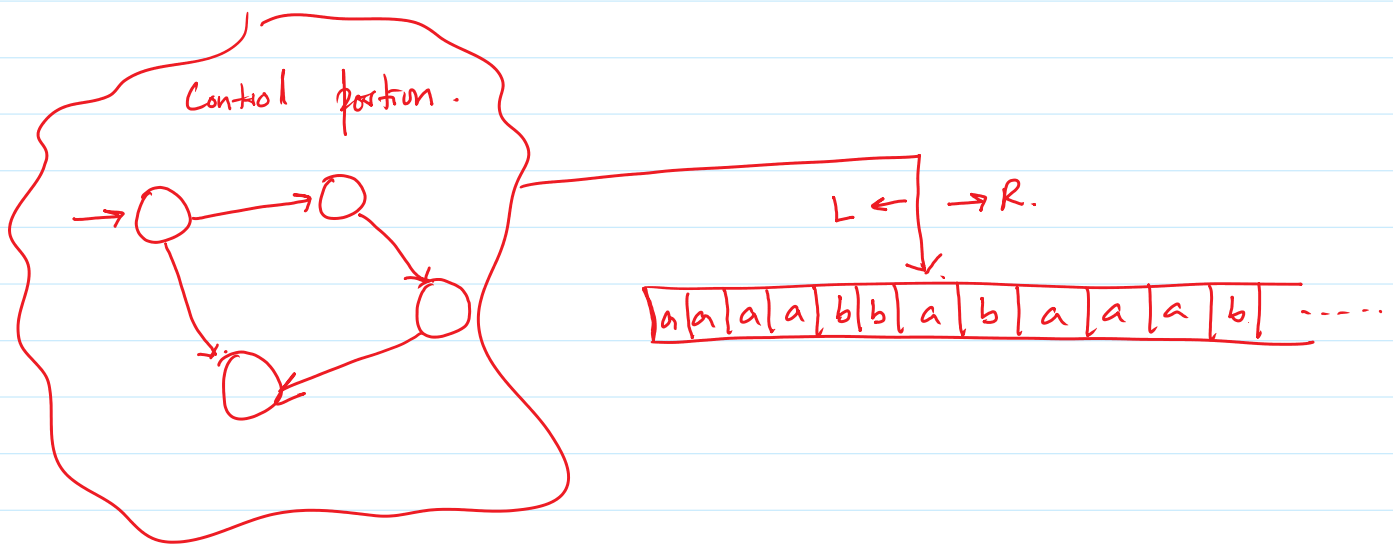
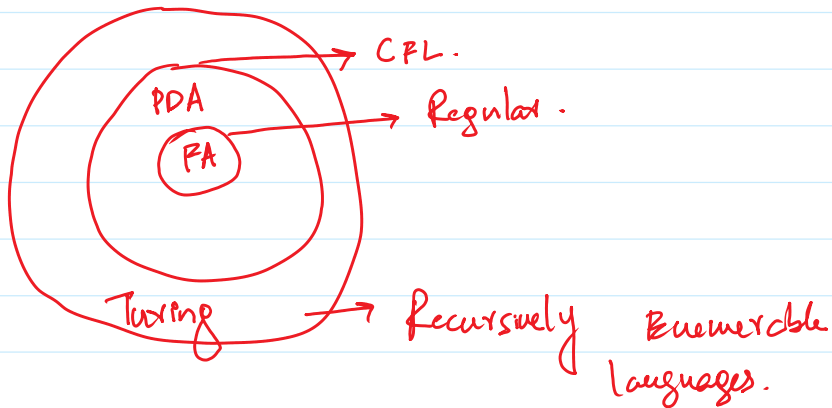
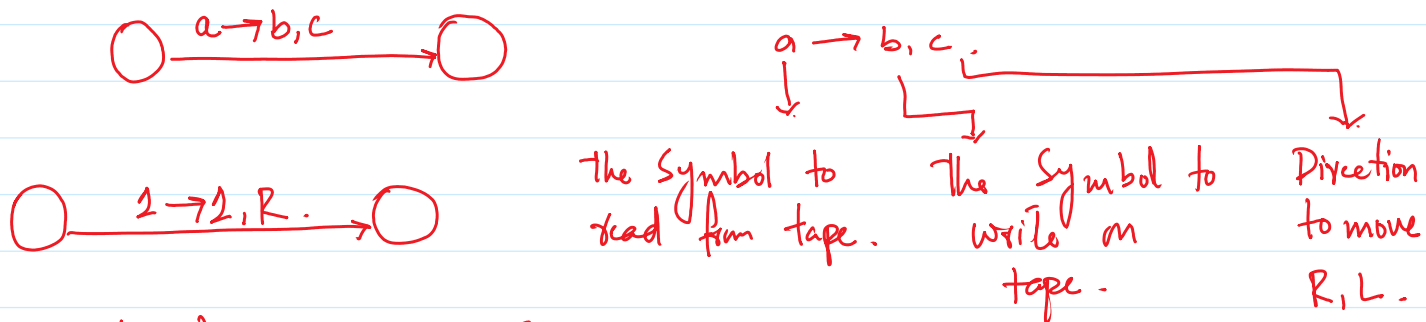


Lecture 28:-



General form.



Initial = One state.

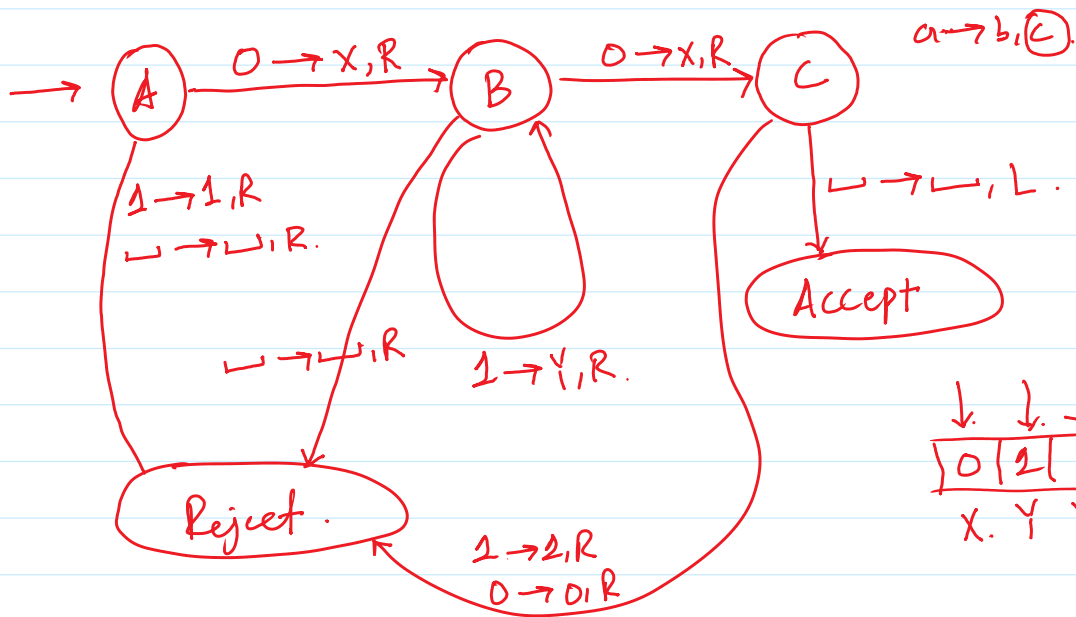
Final = Two states

→ Accept

→ Reject.

PSM = Control Unit = Deterministic.

Ex:- $01^+0 = 00, 010, 0110, \dots$



↓	↓	↓	↓				
0	2	2	0	␣			
x	y	y	x				

$L = \{0^n 1^n : n \geq 0\}$

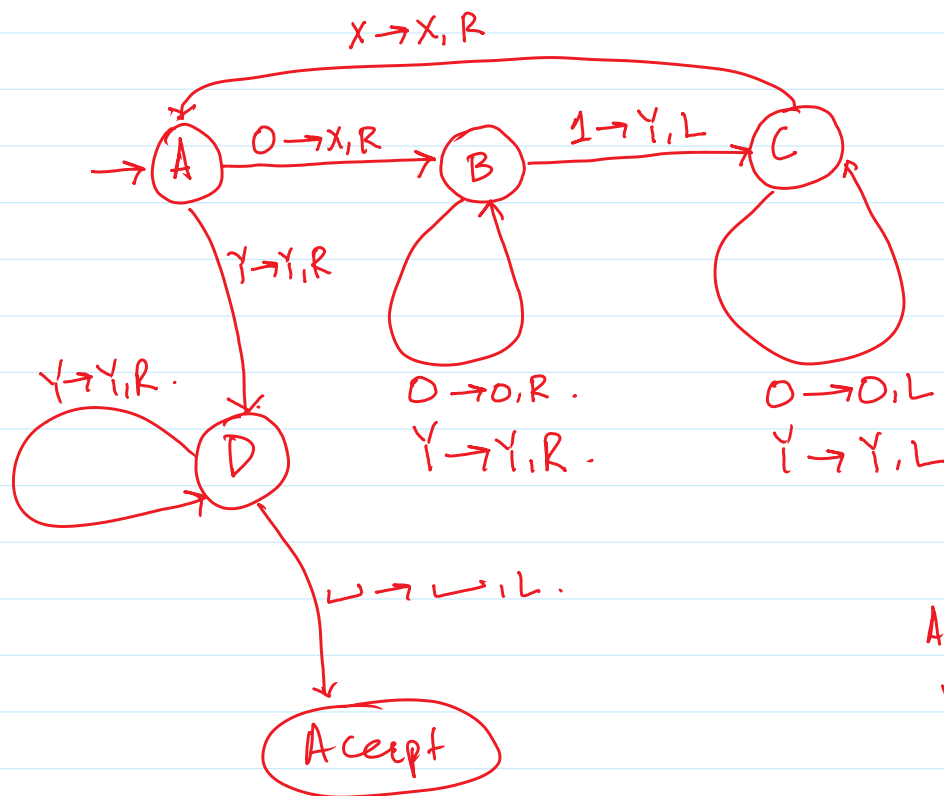
01
0011.

-
=
=

↓				↓					
⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	␣

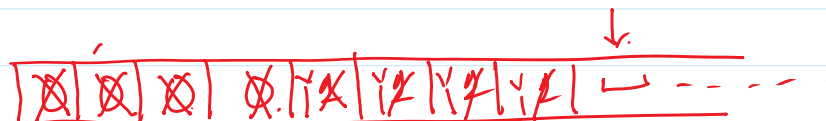
- 1- change "0" to "x"
- 2- Move to Right Until first "1".

- 1- change "0" to "X"
- 2- Move to Right Until first "1".
If None \therefore Reject.
- 3- change 1 to "Y".
- 4- Move left to left most "0".
- 5- Repeat Until no more zero's.



1, 0, X, Y, \sqcup .

All missing transitions for input will go to Reject State.



HW.

$$L_2 = \{0^n 1^{2n} : n > 0\}$$

$$L_2 = \{0^{2n} 1^n : n > 0\}$$

HW

$$L_2 = \{0^n 1^{2n} : n \geq 0\}$$

$$L_2 = \{0^{2N} 1^N : n \geq 0\}$$

