## lecture 5:

Deterministic. Finite Automata.

- Finite State Machine.
- Transition table, Directed Graph.

States. Nodes =

Edges 2 Transitions.

two Special Nodes.

Starting = 
Ending +

$$\xrightarrow{} 0 \xrightarrow{a_1b} 1 \xrightarrow{a_1b} 2 \xrightarrow{a_1b} 3 \xrightarrow{a_1b}$$

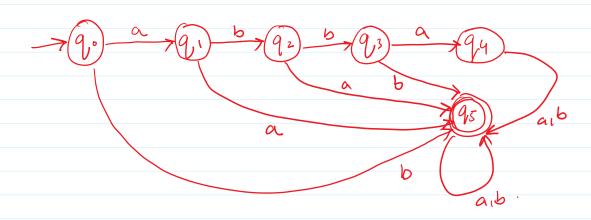
Zzga15}.

aabbbbbcab . 123337333

L-{ aaa, a ab, aba, abb, baa, --- }. abbbab.

Zelaibs. PA's.

Q 2 Set of States \( \frac{1}{2} \) Set of Alphabets



F EQ

Extended frausition Povetim.

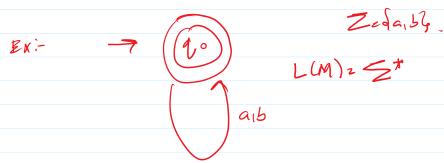
In general  $S^{+}(q, w) = q'$ .

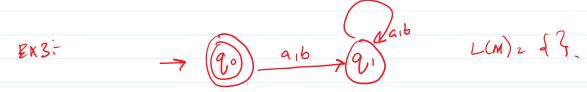
Language fojceted

L(M) 27 WEZ\*: \$ (90 W) 873.

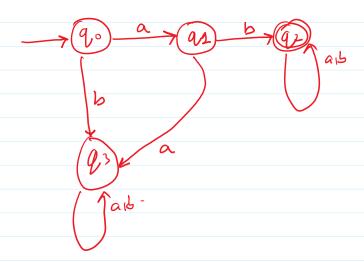
Ex1: Zefab].

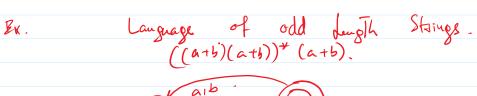




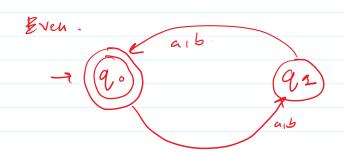


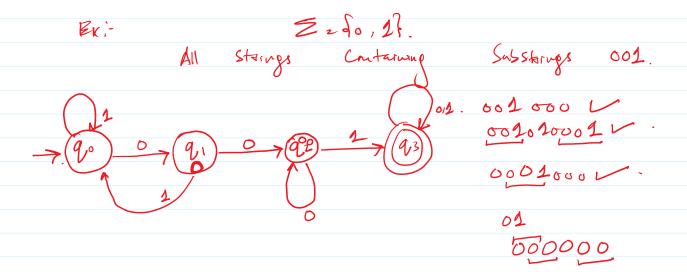
Ex4: - All Strings beginne Zedarb.



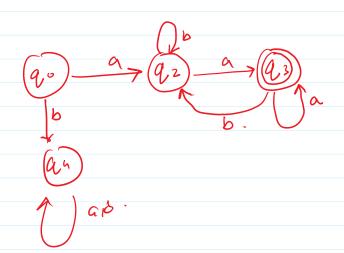








A language which does not Contain 001.



aba. a55 x. a55a ada v.

as6666660 L

Quiz #1 07 - Sep - 2020.

Constanct PA POR a language Containing aa.

至三年日164.