Stalon Matching w	ith Finite Hutomation
A finite automata Mis	a collection of 5-tuples
M = CQ, qo, A, E	s) mpezie.
(i) g = set of states	`G. `\
y = Set of States	, U1)
(ii) qo = Start state (5.)
(iii) A = set of accepting states	
	. ~
(iv) Z = Input alphabe	et s
$8 = T_{\text{mansition}} f_0$	nction Qx Z > Q
Finite Automata	
	STOTTION CO.
Deterministic	Non-Deterministic
Finite	Figite
Hutomata	Automata
dead soo hold	Multiple Path
to	to significant
follow	

Escamples :-

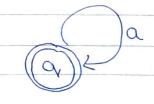




(2) Convert Regular Expression 'ab' into FA

$$- > Q_1 - > Q_2 - > Q_2 - > Q_3$$

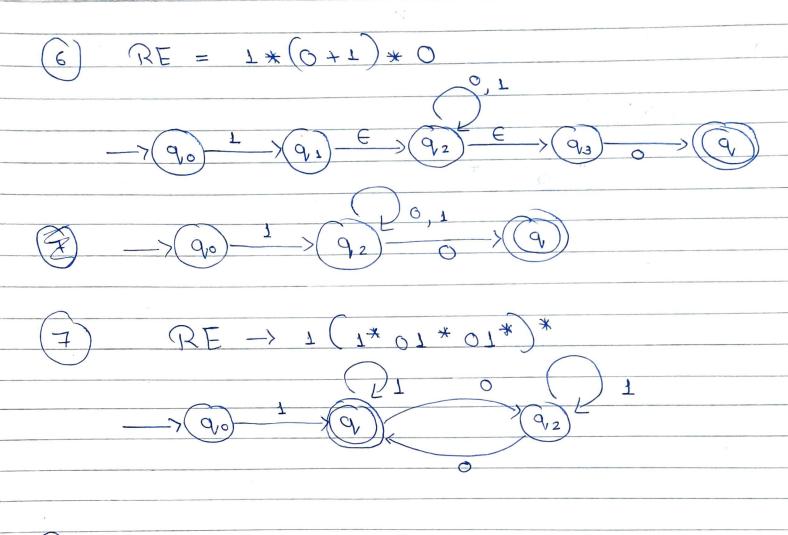
 $(3) \qquad RE = \alpha *$



(4) RE = a+

 $(5) RE = (a+b)^*$

$$\rightarrow (9,1) \bigcirc a,b$$



15) (ab)*) aa*b+ a+b+(ab)*