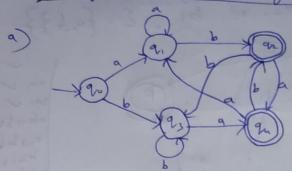
1. Recognize the languages in the DFAs

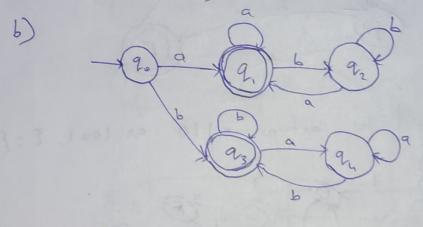


Final states

92 - ends in 'ab'

92 - ends in 'ba'

L = Set of all strings that ends with either 'ab' or 'ba'.

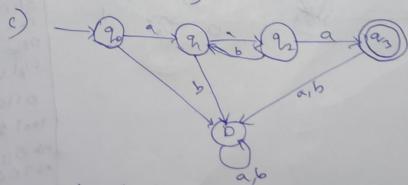


final states

% - Stuts rends with 'a'

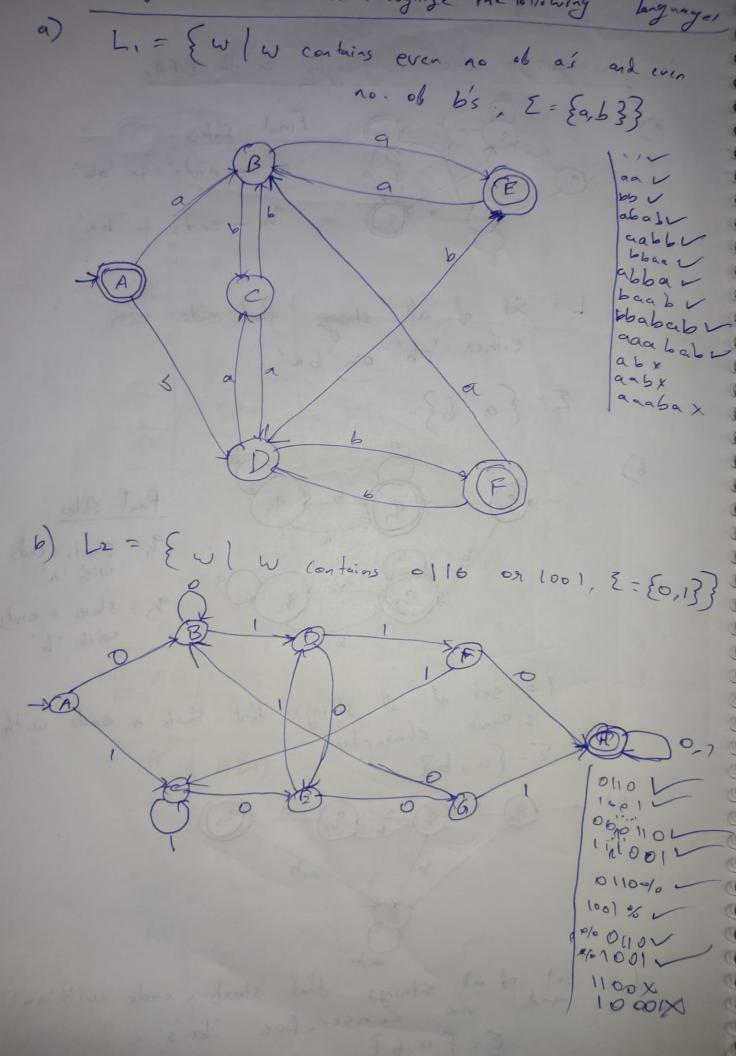
93 - Starts & ends

L= Set of all strings that starts a ends with  $\Sigma = \{a, b\}$ 

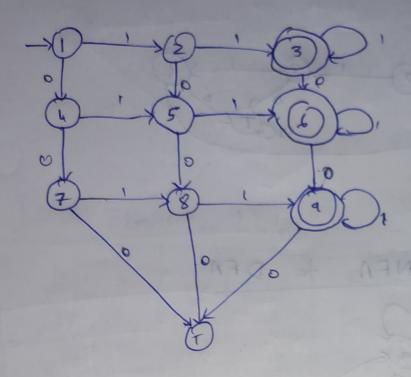


L= set of all strings that starts a ends with 'aa'
and no consecutive b's.

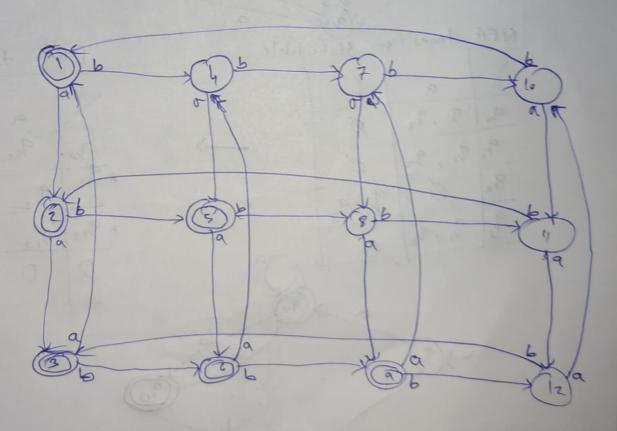
Z= {a,6}



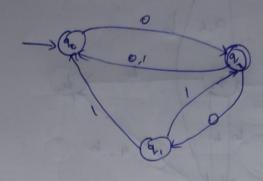
The L3 = { $\omega$  |  $\omega$  is a binary sta with attens + 2 ones and atmost 2 ox,  $\Sigma$  = {0,1}}



d) lu = { w/w has na(w)% 3 >= n6(w)% 4, E={9.6}}



e) is = {w| no ob Consecutive | in w is o or multiple of 4 / 2= {0,13} transition to ble 111 Convert NFA to DFA 2) transition state table NFA 9,3 2,2 D D D



	00	15
>9%	92	Ø
2,	do, 92	90,92
*92	90,91	do

DFA tennsition tuble

	-	-
	0	11/
90	92	6
2	D D	1902
que	9012	90
9012	90/2	202
D	B	D
52	37	

	0	7	
, q.	22	D	
*92	201	20	
901	92	902	
* %02	2012	ovo !	
* Ton	9012	902	
I	D	JD	

