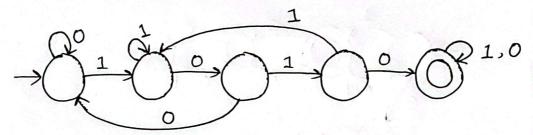
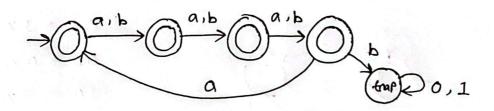
Azmani Sulfang Id: 22201949 CSE 331 Section 11

Am no 1

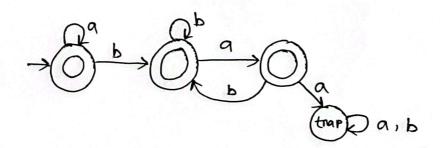
a) L = { w ∈ {0,13 * : w contains '1010' as a substring}



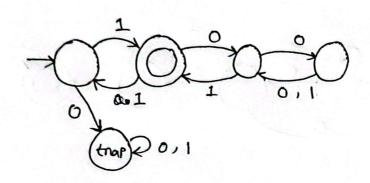
b) L = { w ∈ {a,b} * : 'a · occors in every 4+h position}

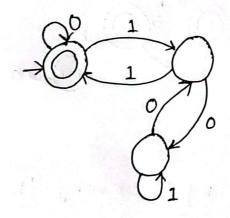


at most one 'a'} every 'b' is sollowed by



and length of w is odd]

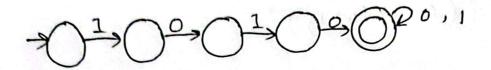




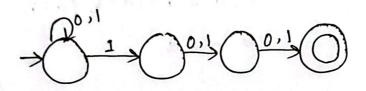
 $01 \Rightarrow 17.3 \Rightarrow 1$ $00 \Rightarrow 07.3 \Rightarrow 0$ $10 \Rightarrow 77.3 \Rightarrow 2$ $11 \Rightarrow 37.3 \Rightarrow 0$ $100 \Rightarrow 47.3 \Rightarrow 1$ $101 \Rightarrow 57.3 \Rightarrow 2$

Ano no 2

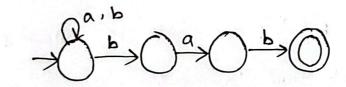
a) L = { W ∈ {0,1} + : W stants with '1010'}



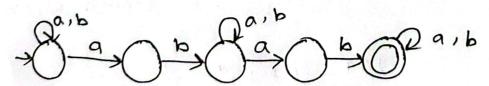
b) L = \(\forall w \in \forall 0,13\pm : 3nd lost symbol in w \)
is 13



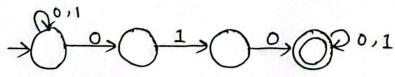
c) L= 2 W ∈ Zaibj*: w ends with 'bab' }



d) l= {w & {a,b} } + ! the count of substring



e) L= qw ∈ q0,13 t: w contains '010' as a substring ?



- a) L= { w ∈ {0,1}* : length of w in even } ((0+1)(0+1))*
- b) L= {w \ {a,b} }*: w stanto and endo with same symbol and the length of w is odd }
- a ((9+b)(a+b)) * (9+b) 9 + b ((9+b)(9+b))* (9+b) b + a + b
- c) L= {w \ {0,13* \ . w contains exactly one '01'}}

 1* 0* 01 1* 0*
- d) 1 = {w \ 2a, b 3 * : every 'b' is followed by at least two 'a' s 3

 a * (baaa*)*
- e) L = 3 w ∈ 20,13 *: w stanto with '1011, }

 1011 (0+1)*

I was a second