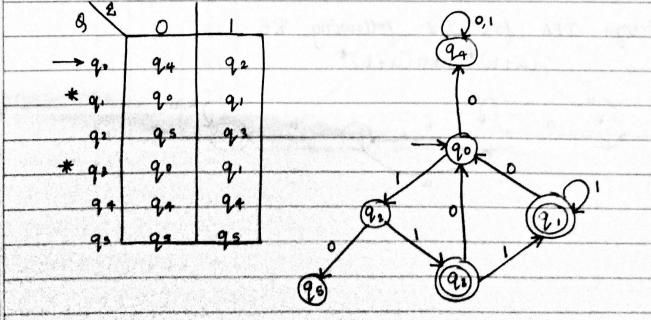
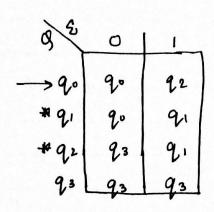
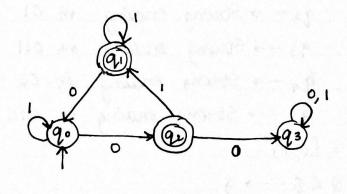
NAME: Mariena Fernandes CLASS: SEIT. ROU NO: 8669 TUTORIAL NO. 3 AT Q.1] Construct DFA that accept set of all strings over 8 - {0,13 such that:-(a) Every O is followed by 11. Ans: M. (8, 8, 8, 90, F) Q = q . - String ending in O q. -- string ending in 1 q2 -> String ending in 01 93 -> String ending in 011 q - String onding in 00 95 -> String ending in 010 € = {0,13 8. Q X 5 - 9



(b) String do not contain the substring 010. Ans. M. (B, E, 8, 90, F)

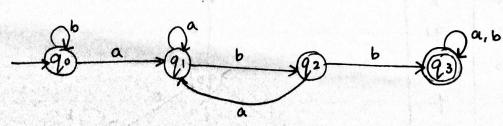
$$9 = 90 \longrightarrow String ending in 0$$
 $9_1 \longrightarrow String ending in 1$
 $9_2 \longrightarrow String ending in 01$
 $9_3 \longrightarrow String ending in 010$





Q.2] Design DFA for the following R.E $(a+b)^*$ abb $(a+b)^*$





Q3] Design IFA over {0,13 which accepts all strongs that contain substraing '11' and do not contain the substraing '00'

Am M. (B, 2, 8, qo, F)

8 = 9 - strung ending in o

9. - string ending in 1

92 - string ending in 11

93 - string ending in 00

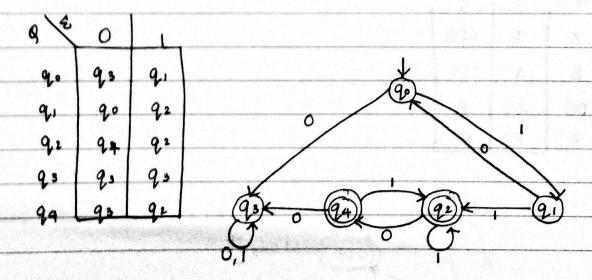
94 - string ending in 110

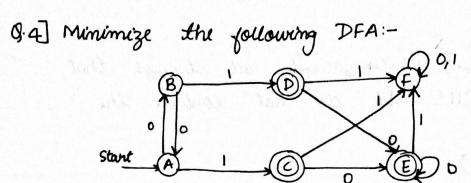
8, 80,13

8 gx &- 9

go: unitial state

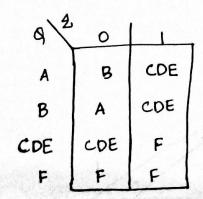
F = [92, 943

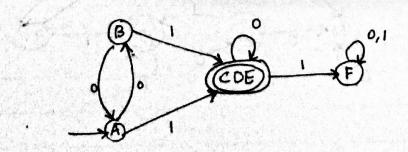




ons.

92	0	1
A	В	c
В	Α	D
٥	E	F
D	E	F
E	E	F
F	F	P





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		92	24	91	94	9,	24				
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