Name; Dhew Kumar

Class: CSE A 2

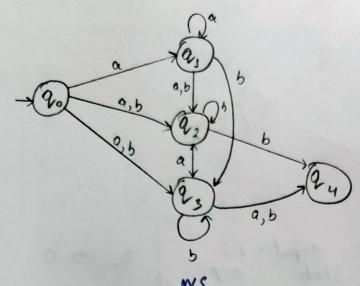
CRN: 2115035

URN; 2104089

Assignment - 1

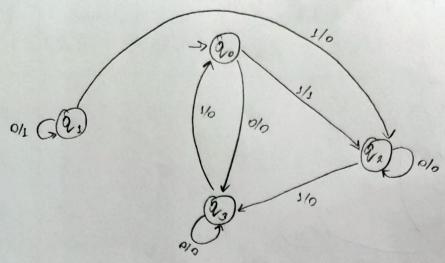
Assignment -1

1. a)



	403		
PS	a	Ь	
→ 20	23,42,43	22,23	
9 ₃	2, 22	22,23	
V2	23	22,24	
23	22,24	23,24	
24	-		

OFA PS	a	6
-> 2°		£ 22, 23 }
{a,,a,,a,}	{ 23,22, 23,243	f 2, 2, 2, 24}
{e2, e3}	{2,2,2,2,3	{ q, q, 2, 2, 3
{0,00,00,00	8 {2, 2, 2, 2, 2,	{ {q ₂ , q ₃ , q ₄ }
{e2, e3, e43	{ 2, 2, 2, 2, 3	{ l ₂ , l ₃ , l ₄ }

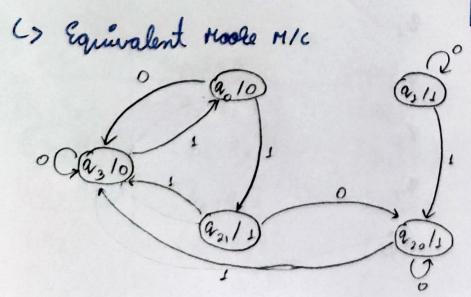


0e	1 Smout =	0 WS	Amout	! _ ,	1
P3	State	0/1	3mput state	019	$a_0 \rightarrow a_1 \rightarrow$
-> 90	23	0	22	1	$a_1 \rightarrow a_2 \rightarrow$
a,	2,	L	22	0	$q_3 \rightarrow$
92	Q2	0	23	0	3
23	23	0	a _o	0	1

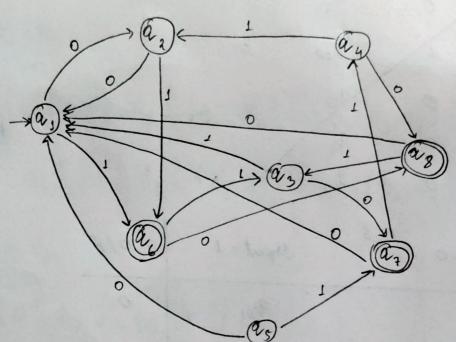
es que gets split into two ": there are two outputs for the same state.

	E. P.	/	22		
Ps	Smput = State	Q20-0	a ₂₁ smpm stale	-1 t=1 01P	- Intermediate
80	43	0	221	1	- Intermed
Q.	as	1	020	•	
V20	420	0	230	0	
921	920	0	43	0	
Q3	23	0	e,	0	

PS	Imput = 0 NS	Somput = 1	OIP
a.	4 3	921	0
a,	Q ₁	220	1
a20	220	23	0
921	4 29	9 ₃	1
23	4 ₃	2,	0



a) where & is



Ps_	Input =0 N	S Smput = 1	
-> Q2	22	26	
92	2,	26	
93	Q.7	a,	
24	rg	2,	
25	2,	2+	
	28	23	
4	2s	24	
QB)	91	23	

 $TT_{0} = \{ \{a_{6}, a_{7}, a_{8}\}, \{a_{1}, a_{2}, a_{3}, a_{4}, a_{5}\} \}$ $TT_{1} = \{ \{a_{6}\}, \{a_{7}, a_{8}\}, \{a_{1}, a_{2}, a_{5}\}, \{a_{3}, a_{4}\} \}$ A_{1}, A_{8} A_{3}, A_{4}

TT2 = { {a2}, {a2, 28}, {a2, 22}, {a3, 24}}

 $\Pi_3 = \{\{a_6\}, \{a_7, a_8\}, \{a_1, a_2\}, \{a_5\}, \{a_3, a_4\}\}$

 $T_2 = T_3$ $T_2 = T_3$ $T_3 = T_3$ $T_4 = T_3$ $T_2 = T_3$ $T_3 = T_3$

0'= \{\a_6\}, \{\a_7, \a_8\}, \{\a_1, \a_2\}, \{\a_5\}, \{\a_3, \a_4\}\}

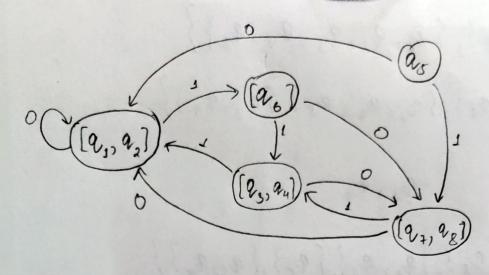
٤ = [0,1]

20'=[2,]

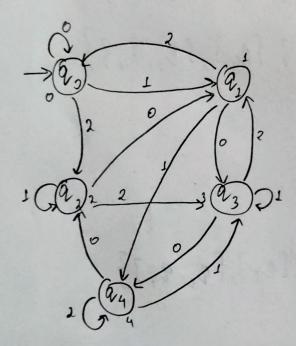
F' = {[a,3,[a,a,3]}

Sment = 0 Imput = 1 -> [a, 22] [0,02] [as] (26) [98,98] [23,24] [a,a8] [9,,92] [23,24] [25] [2, 92] [97,98] [93,94] [92,98] [9,92]









Moore M/C

PS	1/0 = 0	I/0=1	IIP = 2	0104
90	90	N ₁	a _a	0
a,	23	24	90	1
a2	as	92	Q3	2
Q3	dy	13	Q,	.3
an	92	23	24	4

Mealy MIC

PS	IIP=0	ole	IP=1	019	SIP=2	019
Q0	Q _o	0	a ₁	1	2,	1
21	Q ₃	3	24	4	20	0
8/2	Q ₁	1	92	2	23	3
93	24	4	23	3	e,	1
24	22	2	23	3	24	4

