ریب برر ۱۳۸۶ ستم ریستال ۲۰۱۵ ستم ریستال	الناء
0 3.76	<i>J</i> ~
1 10	
DA = BX + AX	
$D_{S} = \tilde{A} \times + 13 \tilde{X}$	
J <sub>A</sub> A(t)	.1
(28 B(t)	

B(t+1)=

#1	DFF -> CY
	input -> X

· Co	1	765	)°
, (			1
0		The state of the s	5.
state		1	

Pres	int state	in put	Next	State
Acti	13(t)	Х	A(til)	13 (t+1)
0	0	0	0	0
0	c	i.		1
0	1	0	0	1
0	1	1	1	1 -
· i	0	•	1	•
1	0	1		٥
1	1	0	1	1

	U	0	0			
	0	c	,	0	1	
	0	1	0	0	1	A= ALL+1
	0	1	1	1	1 -	As Meet
	V	0	e	1	0	
	1	0	1	•	٥	
	1	1	0	1	1	
	1	t	1	1	0	
X			D <sub>A</sub> AG		-	

* LD-D-	D <sub>A</sub> A(t)
	D <sub>B</sub> B(t)
	->_b_
	clK

#2	Ş	JA = BX + BY , KA = BXY
,		JB = AX , KB = A+ XY
		$Z = A\overline{X}\overline{Y} + B\overline{X}\overline{Y}$ input $\rightarrow X, \not\in Y$ output $\rightarrow Z$
	(	input -> X, EY output -> 2

$$|Q_{(t+1)} = \overline{J}\overline{Q} + \overline{K}Q|$$

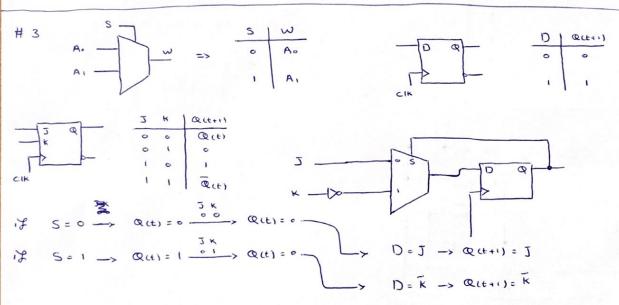
$$| L_{\gamma} A_{(t+1)} = \overline{J}_{\Lambda} \overline{A} + \overline{K}_{\Lambda} A = (BX + \overline{B}\overline{Y}).\overline{A} + A(\overline{B}X\overline{Y})$$

$$= \overline{A}BX + \overline{A}B\overline{Y} + \overline{A}B\overline{Q}AB + AX + AY$$

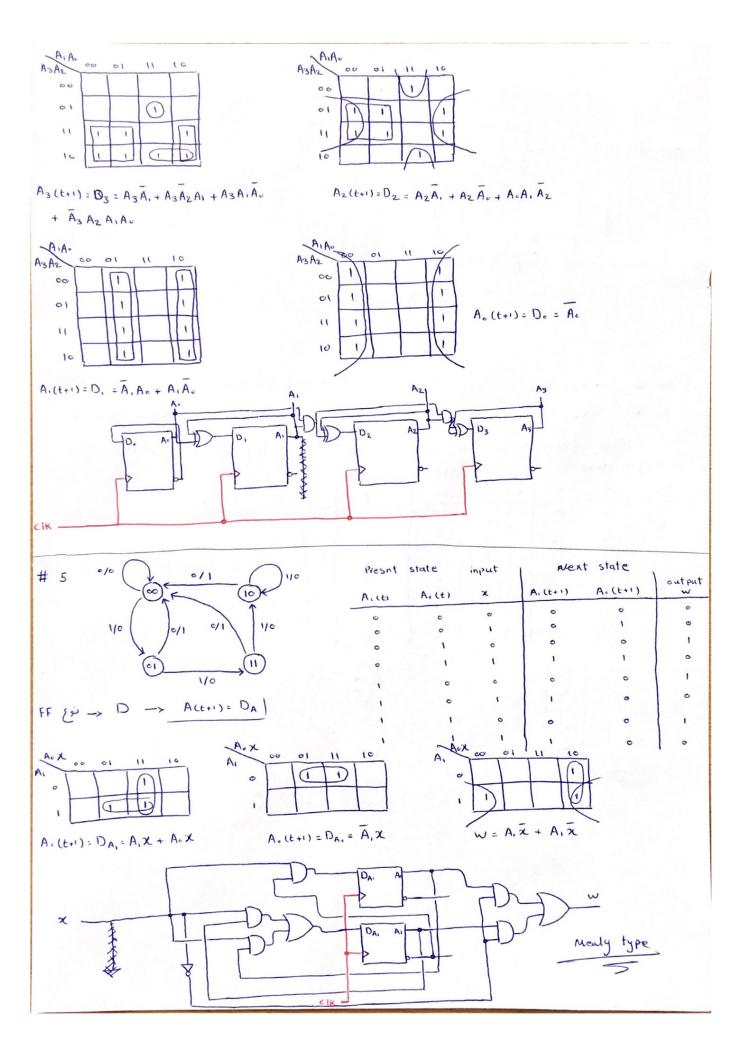
$$B_{(t+1)} = \overline{J}_{B}\overline{B} + \overline{K}_{B}B = \overline{A}X\overline{B} + B(A + X\overline{Y})$$

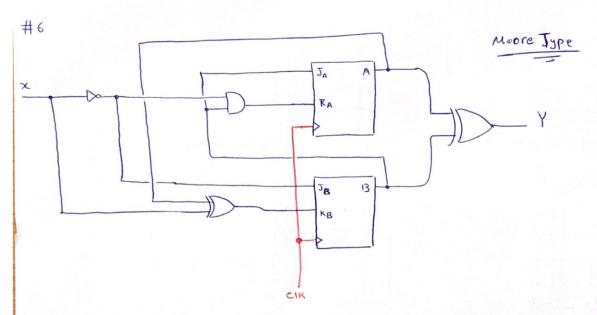
$$= \overline{A}X\overline{B} + \overline{A}B\overline{Q}AB\overline{Q}AAB + \overline{A}B\overline{X} + \overline{A}B\overline{Y}$$

Presnt state			Presnt state Nex			output
ACEI	13(t)	X	Υ	A(+1)	13 (t+1)	Z
0	0	0	0	1	0	1
0	0	0	,	o		0
0	0		0	1	1	,
0.	0		,	0	1	
0	1			0	1	1
0	•	0	1	0	1	1
0	1	1	0	1	0	1
•	1	1	,	1	1	1
1	0	0	0	0	0	0
1	0	0	1	_ 1	0	1
1	0	1	0			0
1	0	1	1	1		
,	1	0	0	1	0	1
1	1	0		1		1
1	1	1	0	1	•	1
1	1		1	1	0	1



7 (2)	Presnt state	next state	FF. inputs
# 4 (00)	A3 A2 A, A.	A3 A2 A, A.	03 D2 01 00
	0; 0 0 0	0001	
· · · · · · · · · · · · · · · · · · ·	1: 0 0 0 1	0 0 1 0	
	2'	0011	2
(0010)	3: 0 0 1 1	0100	9
(1000)	4: 0 1 0 0	0 1 0 1	
	5: 0 1 0 1	0 1 1 0	
	6: 0 1 1 0	0 1 1 1	Q
	7: 0 1 1 1	1000	-
	9. 1 0 0 0	1001	e e
	4:	1010	1
			A
	10: 1 0 1 0	1011	4
	11: 1 0 1 1	1 100	1 20 1
	12: 1 1 0 0	1 1 0 1	\ \dag{2}
	13: 1 1 0 1	1110	3)
			) '3
	14: 1 1 0	1 1 1	3,3
	15'. 1 1 1 1	0 0 0 0	1
			1 310
		1 2 2 3 2 2 3 3	1 1





$$\begin{cases} \overline{J}_{A} = \overline{B} &, & K_{A} = \overline{B} \overline{x} \\ \overline{J}_{B} = \overline{x} &, & K_{B} = x \overline{A} + \overline{x} A \end{cases}$$

$$Y = A \oplus B = \overline{A}B + \overline{B}A$$

 $Q(t+1) = \overline{J}Q + \overline{K}Q$   $\Rightarrow A(t+1) = \overline{J}A \cdot \overline{Q} \cdot \overline{A} + \overline{K}_A A = B\overline{A} + A\overline{B} + AX$   $\Rightarrow B(t+1) = \overline{J}B \cdot \overline{B} + B\overline{K}_B = \overline{X}\overline{B} + B\overline{A}X + BAX$ 

Pres	nt state		Nex	t state	cutput				
ACE	13(t)	×	A (t+1)	13(E+1)	Y	JA	KA	3B	KB
0	0	0	c	1	1	0	0	1	0
c	0	1	0	0	0	0	0	0	
0		0	1	1	0	1	1	- 1	1
0	•	1	1	•	,	1	0	0	۰
1	0	0	1	1	0	0	0		
1	0	1	1	c	1	c	۰	0	
1	1	0		0	0	1	1	1	
1	1		1	1	0		0	0	0

0	0	0	×
0	1	1	×
1	•	X	1
•	1	X	c
	ل تعرَّب	3.7	

