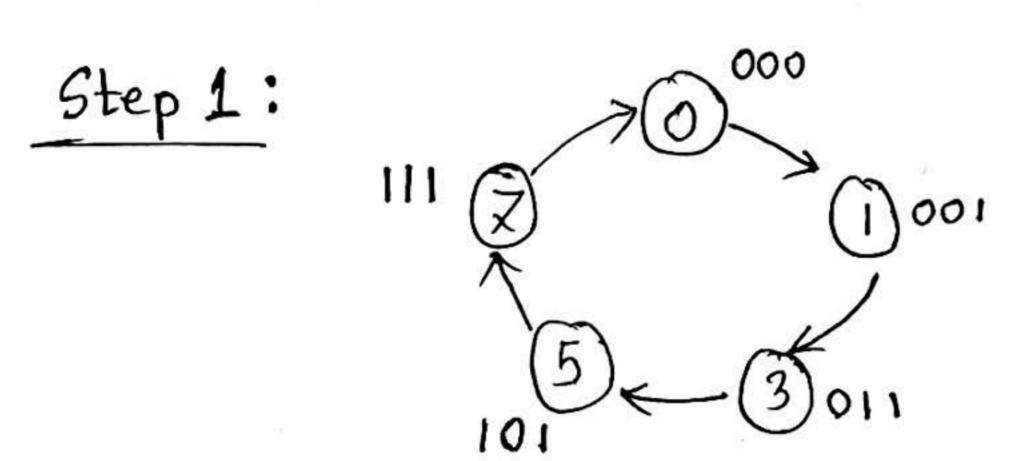
## Tajbiul Hansan Rafi 1922024042

# Counter with irregular count sequence: (0,1,3,5,7)

-> Using JK flip flop to design a counter with count
sequence.



.: Alip Alop required = 3

Step 2: Next state table:

	Present state			Next state			
	Q <sub>2</sub>	Q,	Q.	Q2	$Q_1$	Qo	
0	0	O	.0.	0	. 0	.1	
. 1	J. 0	0	1	0	1	1	
3	0		14	J	,0	ì	
5	-1 -	0	1	l'	1 -	1	
Z	i	•	t	0	16	0	
2.5	Cor			1			

$$\frac{1}{0} \frac{1}{0} \frac{1$$

All other state's are don't core.

Step 3: transition table for J. K Alip Hop

QN	QNHI		Flip Flop	Input	
0	$\rightarrow$	0	0	×	
0	<b>→</b>	1	1	X	
ſ	$\rightarrow$	0	×	1	
1	$\rightarrow$	t	X	0	

ario,

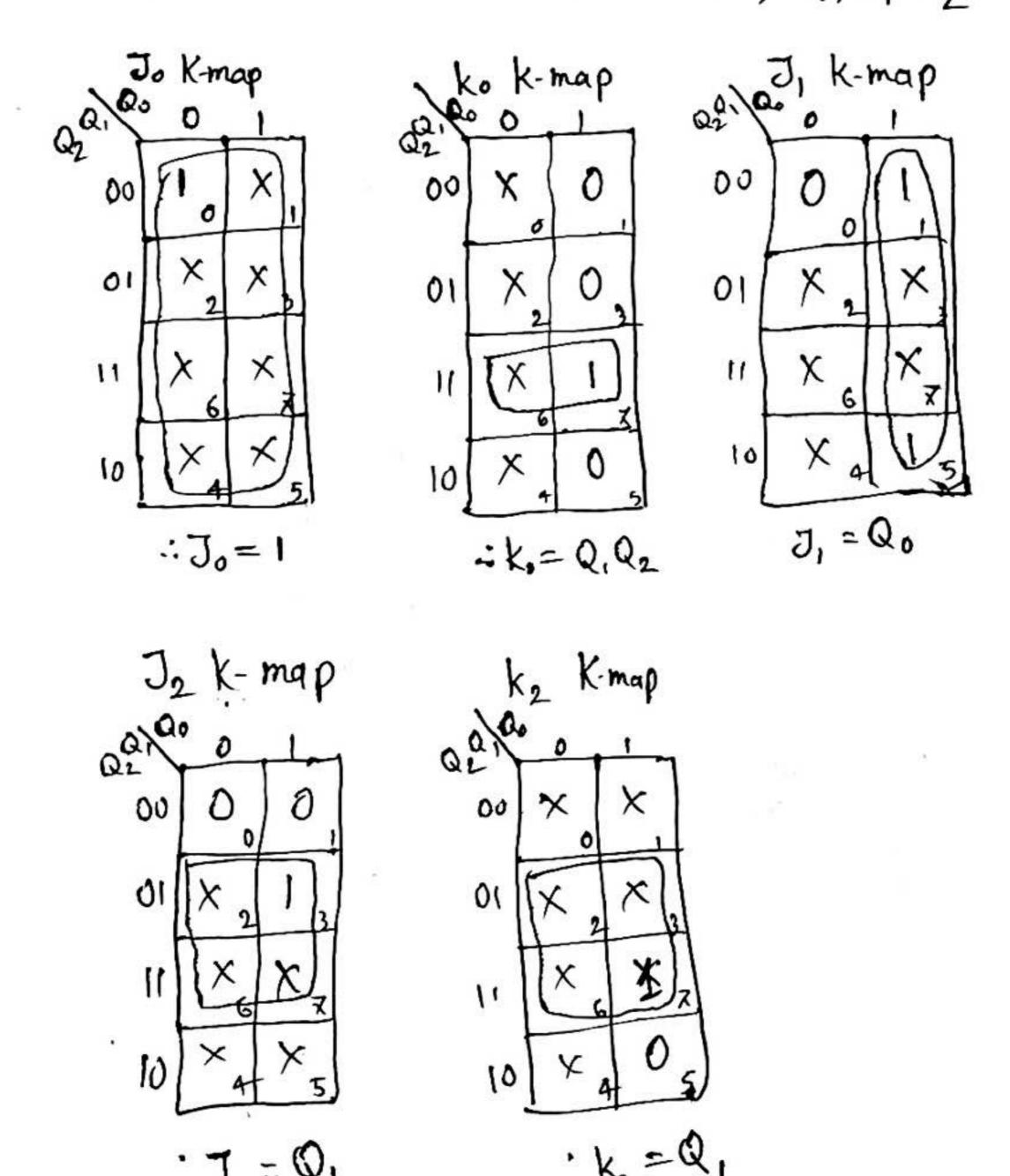
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11

10

Step 4: K-map for Jo, J, J2, Ko, K, K2



at a single interest in the state of the state of inns dia relation of the fill de significant 5: 4.11 11 High. Qo 110 1/0/0/0/0/1 11/ Orno Druk

11774 1100 500 11 1111 1701