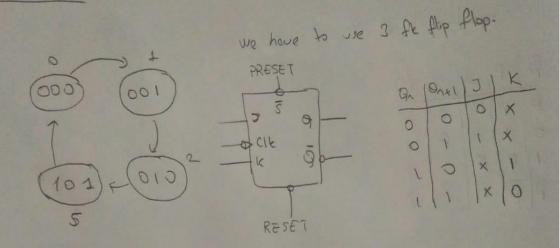
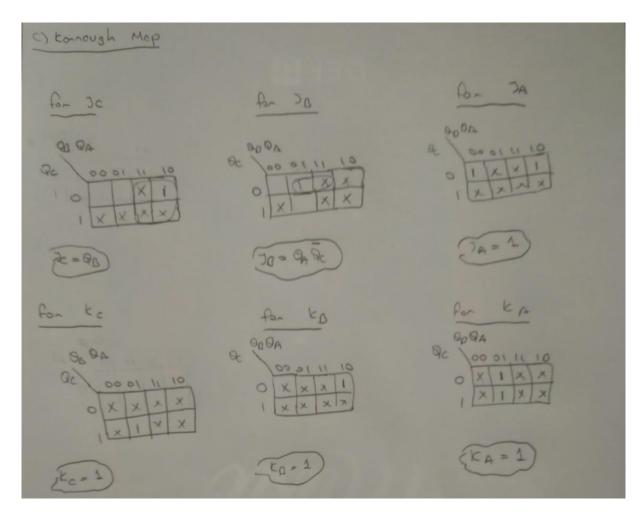
$2019510025 \Rightarrow Mod 8 produces 2,0,1,1,5,1,0,0,2,5$  and without repetition it counts 0,1,2,5

# a) state Diogram

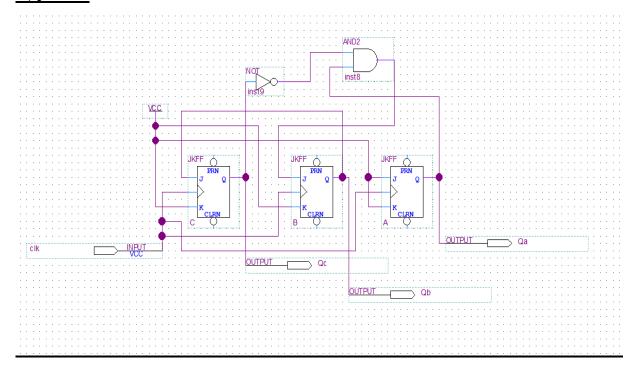


bistate table

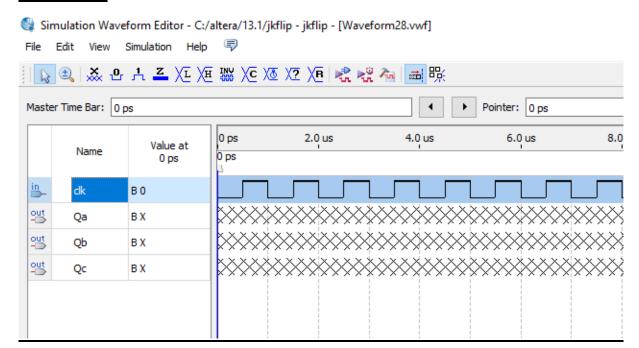
Present stole	Nex Qt	4 Stole Pot PA	) 3c	kc	20	KB	JA KA
9c 90 94 0 0 0	0	0 1	0001	×××	0 1 %	×	\( \times \)
0 1 0 1	×××	× × × 0 0	× × ×	××··×	××	× × ×	X
1 0 1	××	× × ×	×	* *	××	×	\(\delta \times \)



### **D)Quartus**

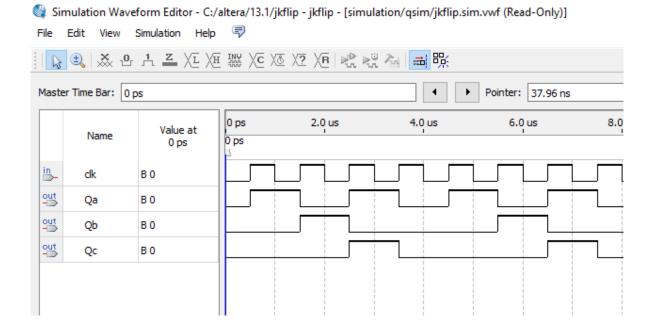


### E)Waveform



#### F)Waveform Result

The result of the waveform continues 0,1,2,5 without stopping. (respectively)



## **G)Breadboard**

