Convert JK to T-Flip flop.

Given flipflop is JK flip-flop.

Required flipflop is T flip flop

Characteristic Table of TFF

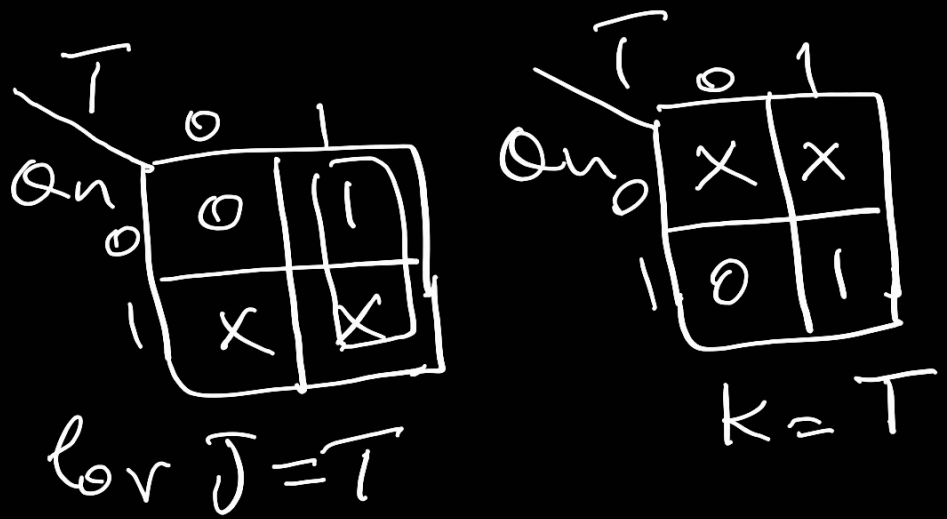
← from excitation table

Q_n	T	Q_{n+1}	J	K
0	0	0	0	X
0	1	1	1	X
1	0	1	X	0
1	1	0	X	1

Excitation Table of JK

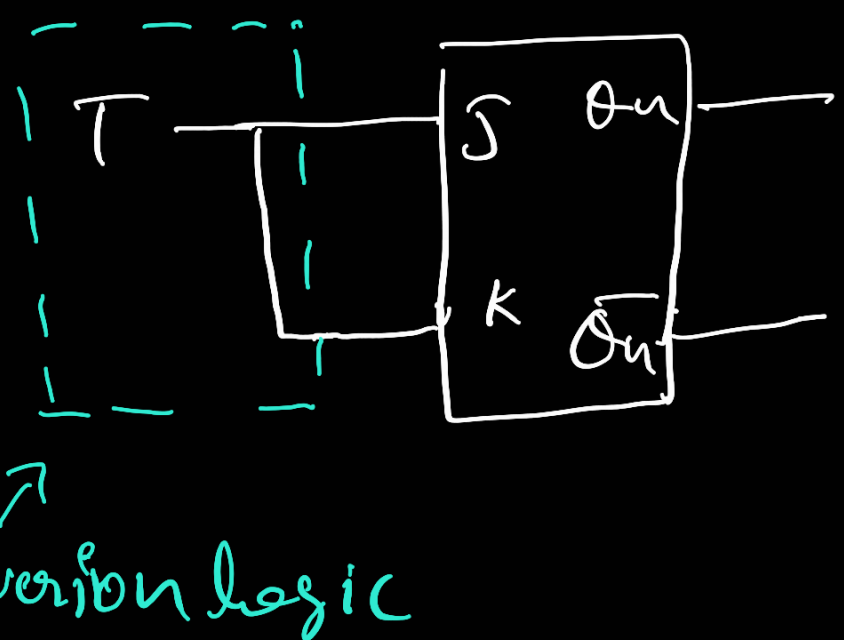
Q_n	Q_{n+1}	J	K
0	0	0	X
0	1	1	X
1	0	X	1
1	1	X	0

Boolean expression for the available flip-flop



we obtain $J = T$, $K = T$

There for the required circuit is



↑ Conversion logic