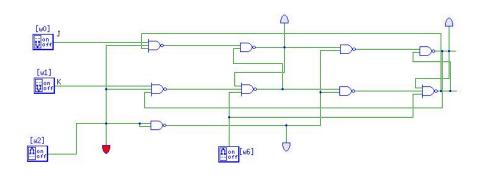
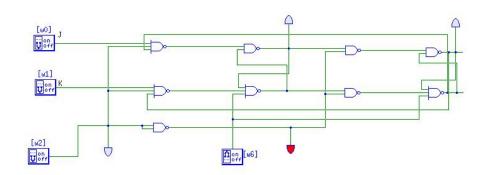
# CS220 Computer Architecture Digital Logic Design Practical 5

## Part A true table:

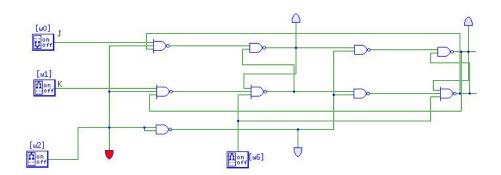
		工
Jn	Kn	Qn+1
0	0	Qn
0	1	0
1	0	1
1	1	Qn

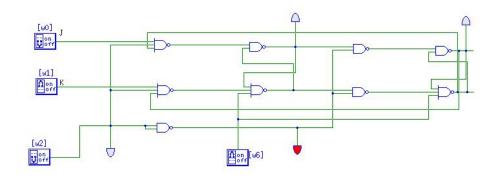
$$J = 0 \quad K = 0 \quad Q_{n+1} = Q_n$$



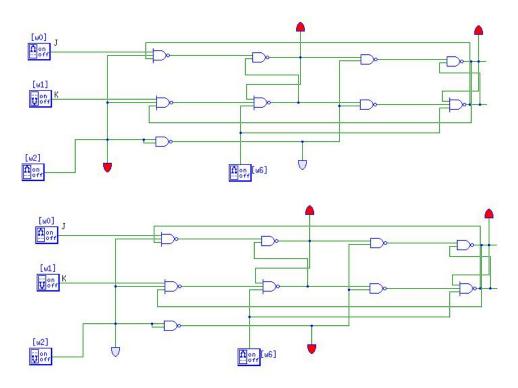


$$J = 0$$
  $K = 1$   $Q_{n+1} = 0$ 

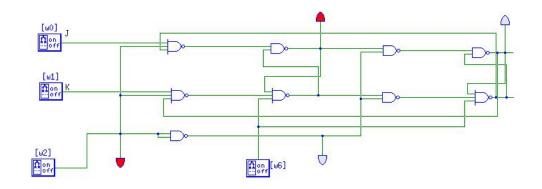


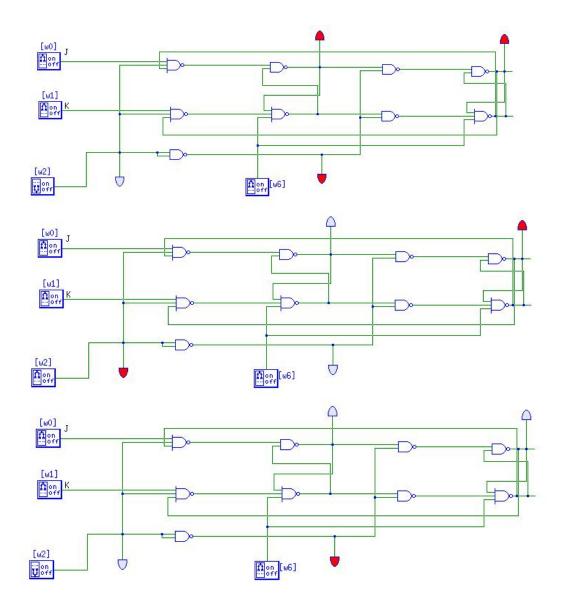


$$J = 1$$
  $K = 0$   $Q_{n+1} = 1$ 



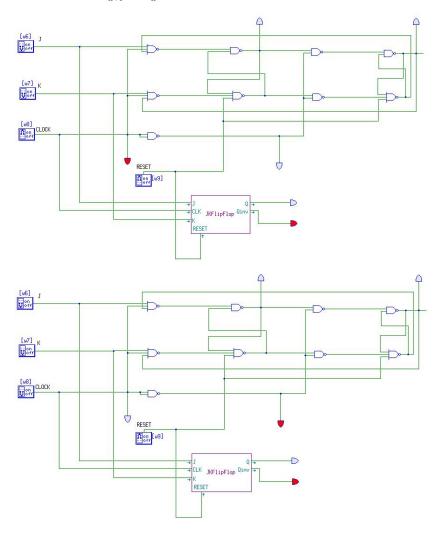
$$J=1$$
  $K=1$   $Q_{n+1}=\overline{Q_n}$ 



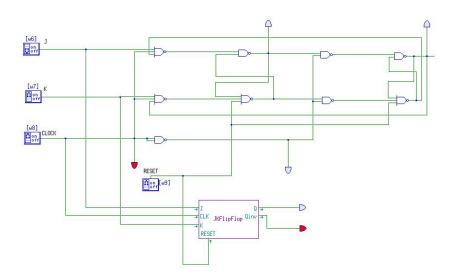


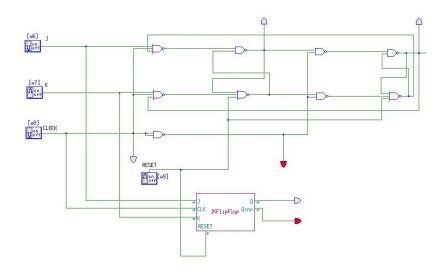
#### Part B

$$J = 0 \quad K = 0 \quad Q_{n+1} = Q_n$$

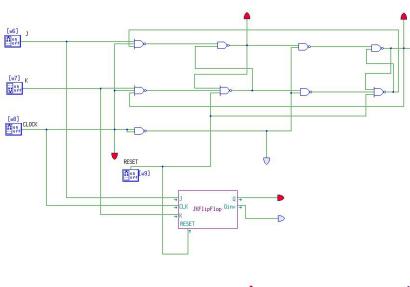


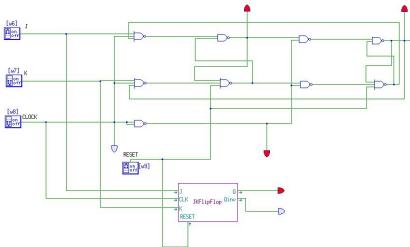
$$J=0 \quad K=1 \quad Q_{n+1}=0$$



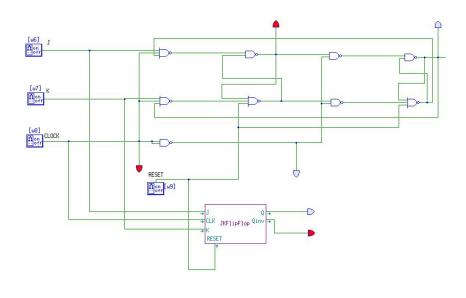


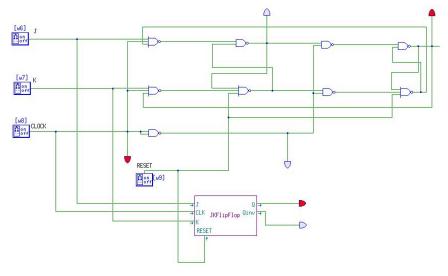
 $J=1 \quad K=0 \quad Q_{n+1}=1$ 

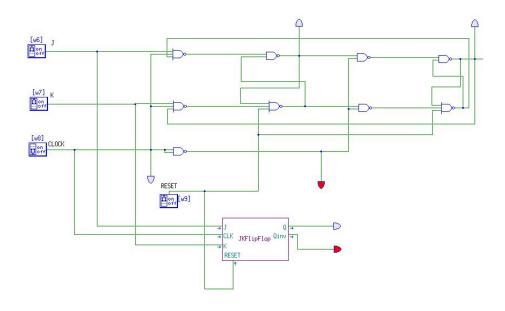




### J=1 K=1 $Q_{n+1}=\overline{Q_n}$



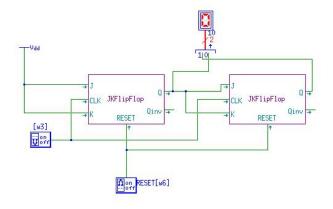




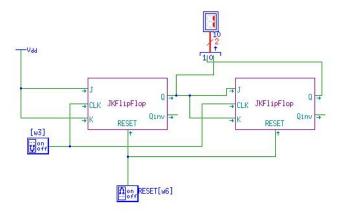
#### Part C

Α	В	Number
0	0	0
0	1	1
1	0	2
1	1	3

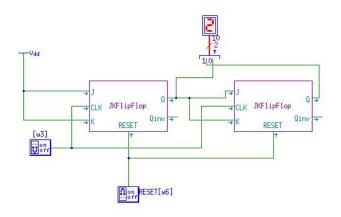
#### Number 0:



#### Number 1:



#### Number 2:



#### Number 3:

