

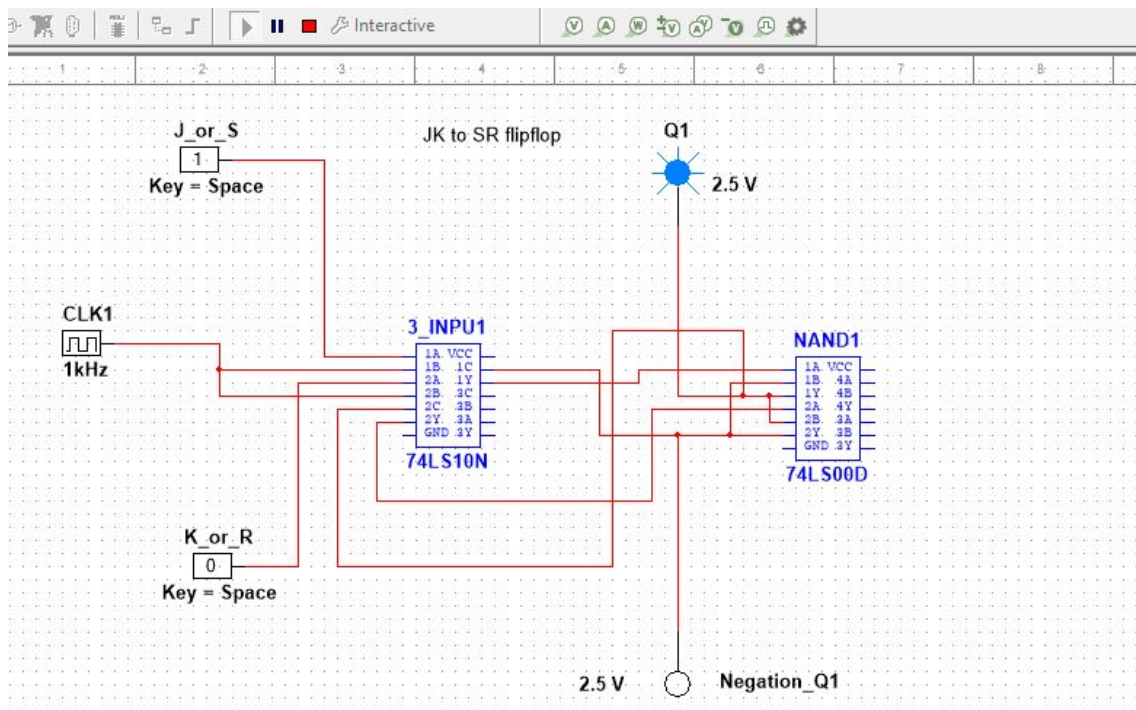
DACD Lab Experiment -9

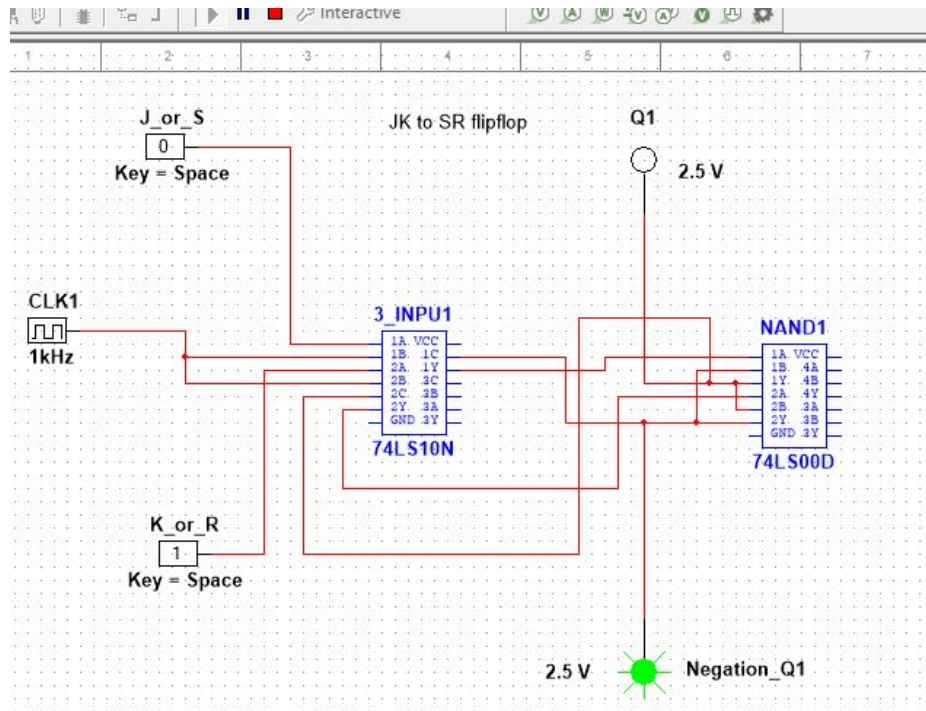
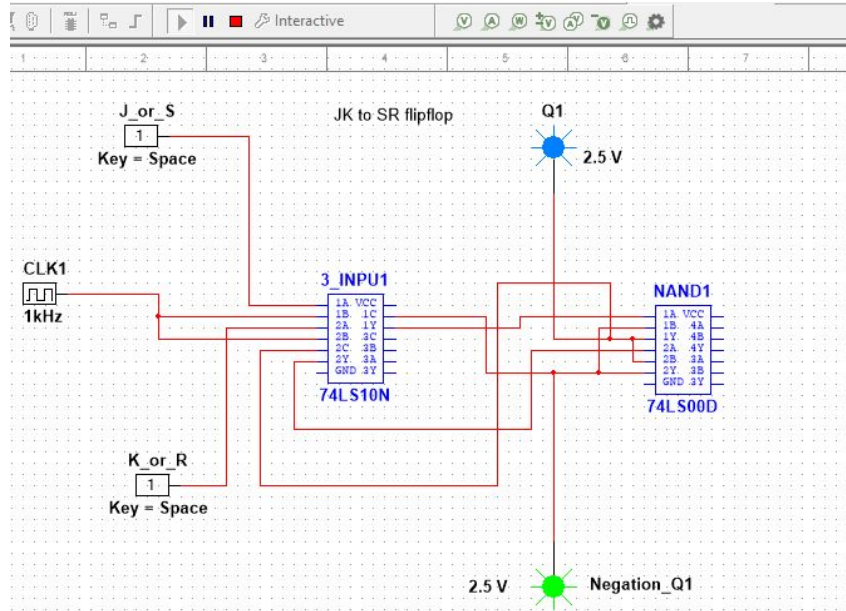
Due: 19-10-2020

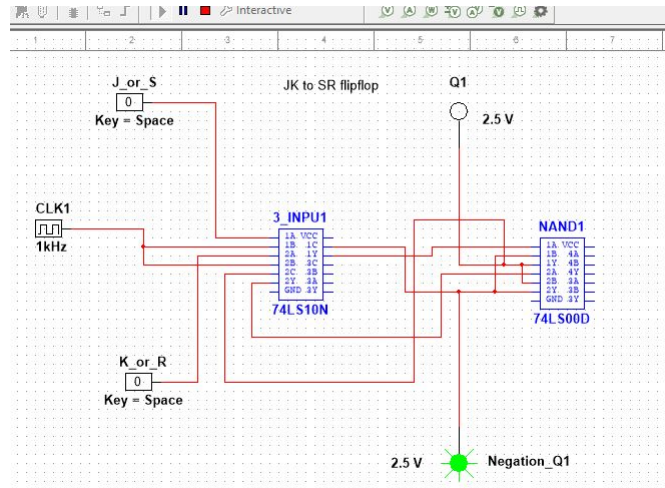
1) Convert JK flipflop to SR flipflop

S	R	Q _n	Q _{n+1}	J	K
0	0	0	0	0	X
0	0	1	1	X	0
0	1	1	0	X	1
1	0	0	1	1	X
1	1	Invalid		X	X
1	1	Invalid		X	X

From K-maps, we get,
S=J & R=K







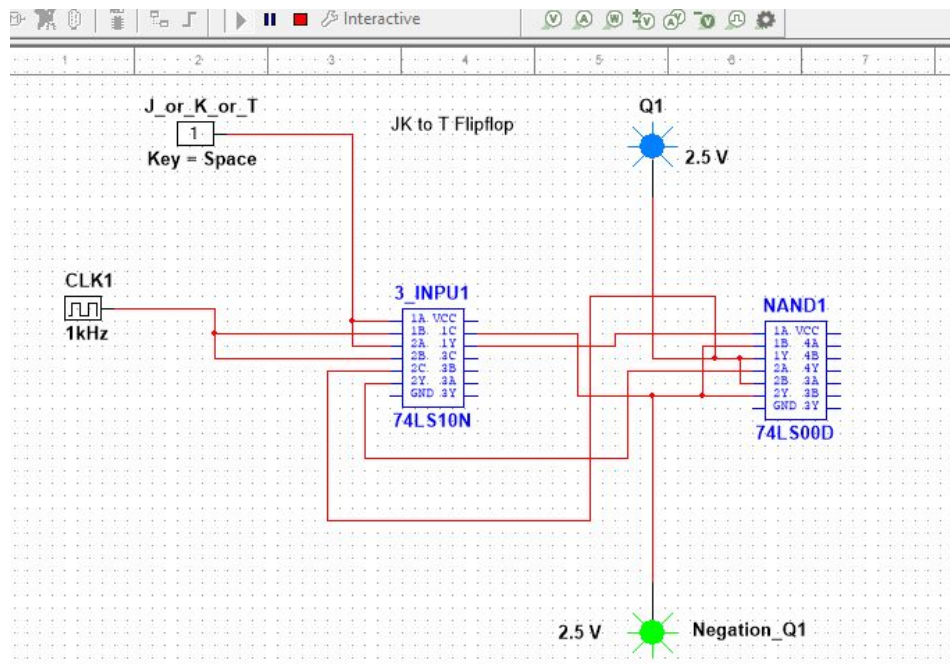
2) Convert JK flipflop to T-Flipflop

T	Q _n	Q _{n+1}	J	K
0	0	0	0	X
0	1	1	X	0
1	0	1	1	X
1	1	0	X	1

Using K-maps we get ,

$$J=T$$

$$K=T$$



3) Convert JK Flipflop to D flipflop

D	Q _n	Q _{n+1}	J	K
0	0	0	0	X
0	1	0	X	1
1	0	1	1	X
1	1	0	X	0

By using K-maps, we get

$$J=D$$

$$K=D'$$

