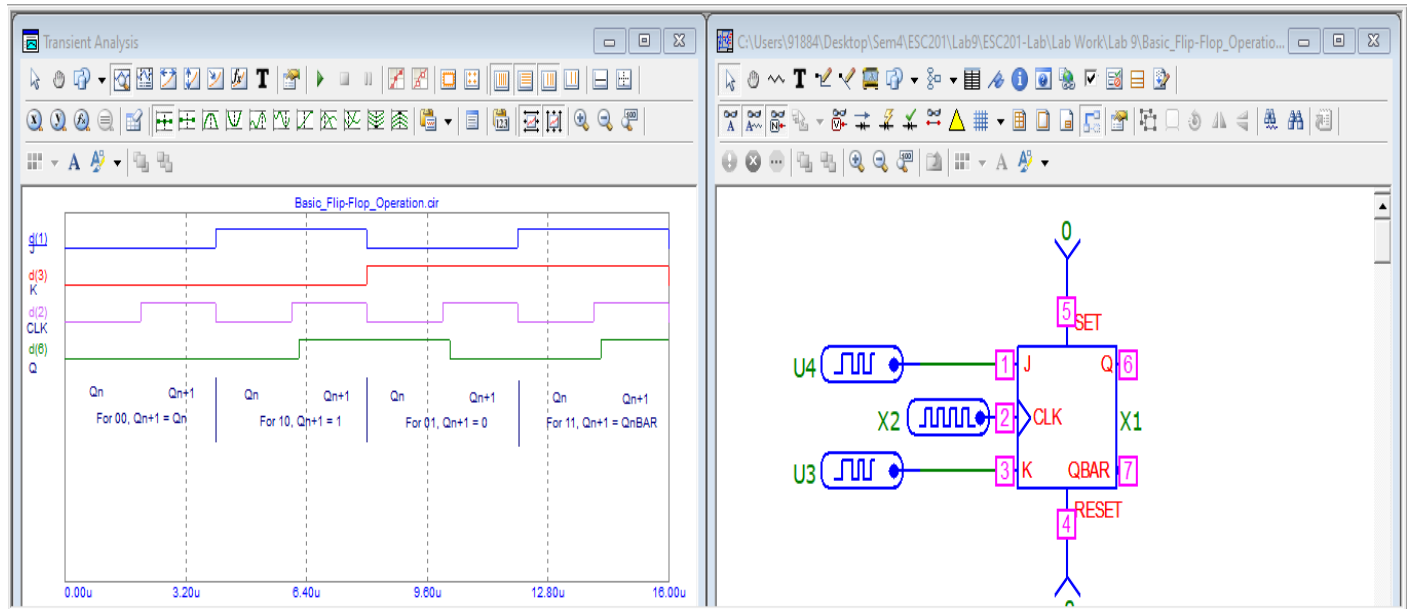


ESC201 Lab Experiment 9

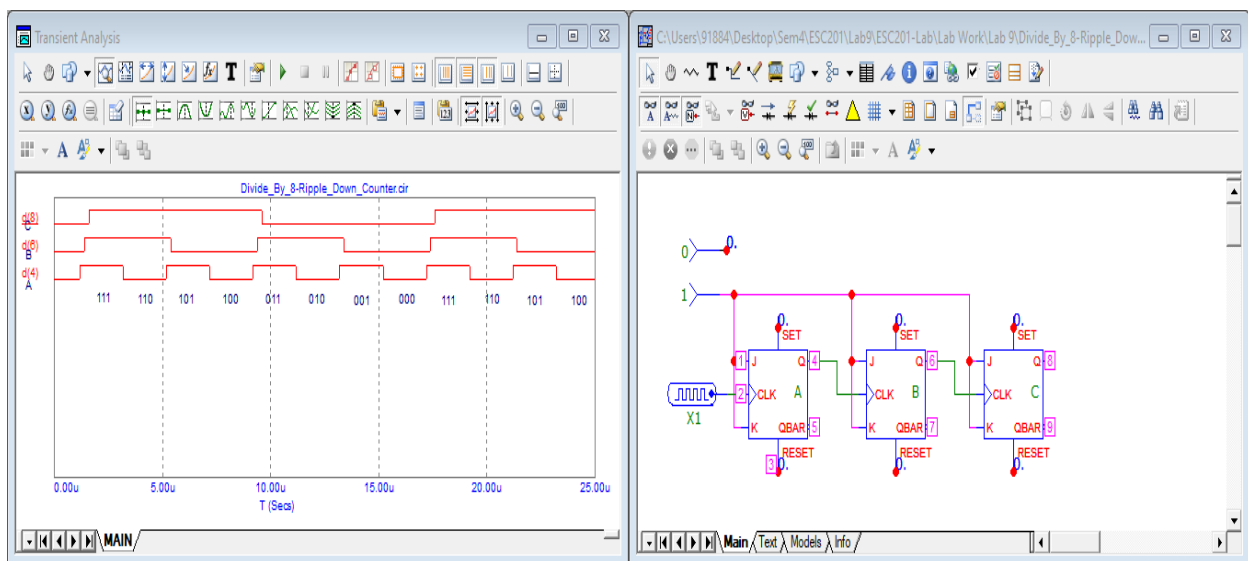
1. Verify Basic Flip Flop operation:

Truth Table

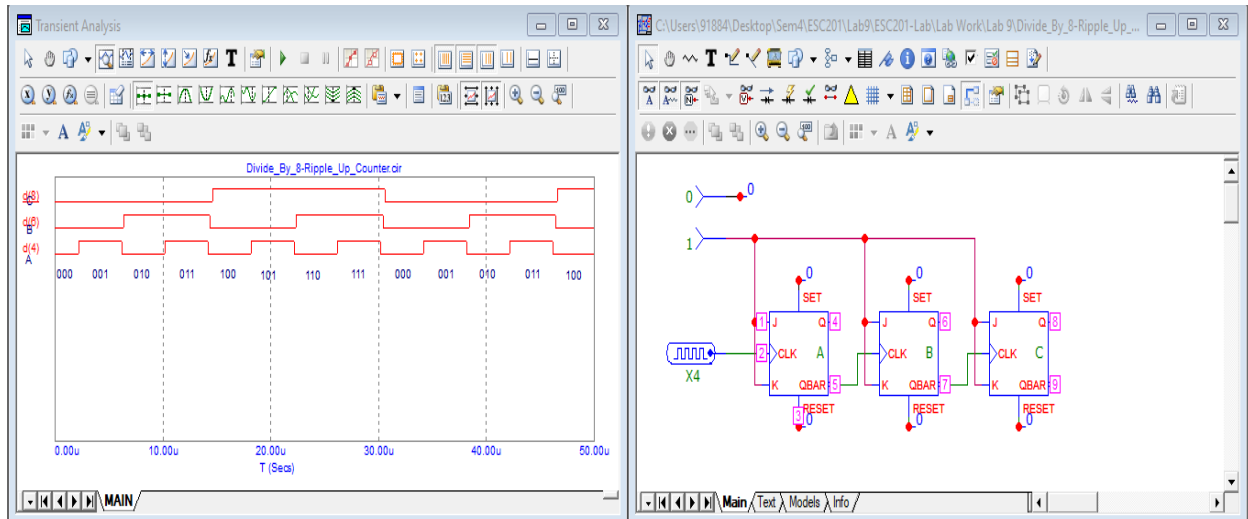
INPUTS					OUTPUTS	
S_d	C_d	CP	J	K	Q _{n+1}	Qbar _{n+1}
L	L	↑	L	L	Q _n	Qbar _n
L	L	↑	H	L	H	L
L	L	↑	L	H	L	H
L	L	↑	H	H	Qbar _n	Q _n



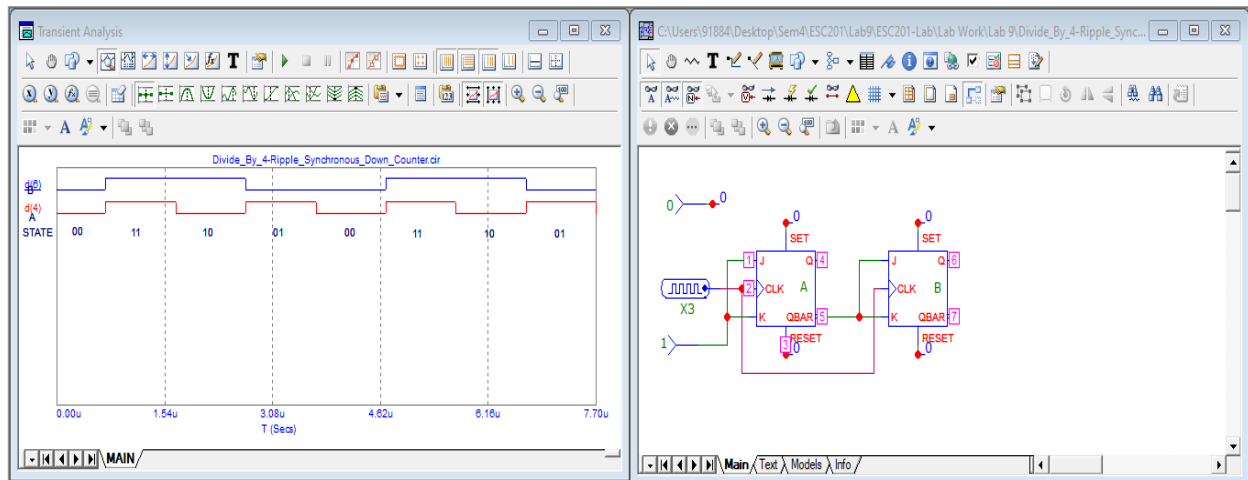
2. Divide-by-8 Ripple Down Counter (3 FFs):



3. Divide-by-8 Ripple UpCounter (3 FFs):



4. Divide-by-4 Synchronous Down Counter (2FFs):



5. Divide-by-3 Synchronous Up Counter (2 FFs):

