

Name: _____

Lab Section: _____

ECE 2140
Experiment 9 Prelab
JK Flip-Flop

1. Read through Experiment 9.

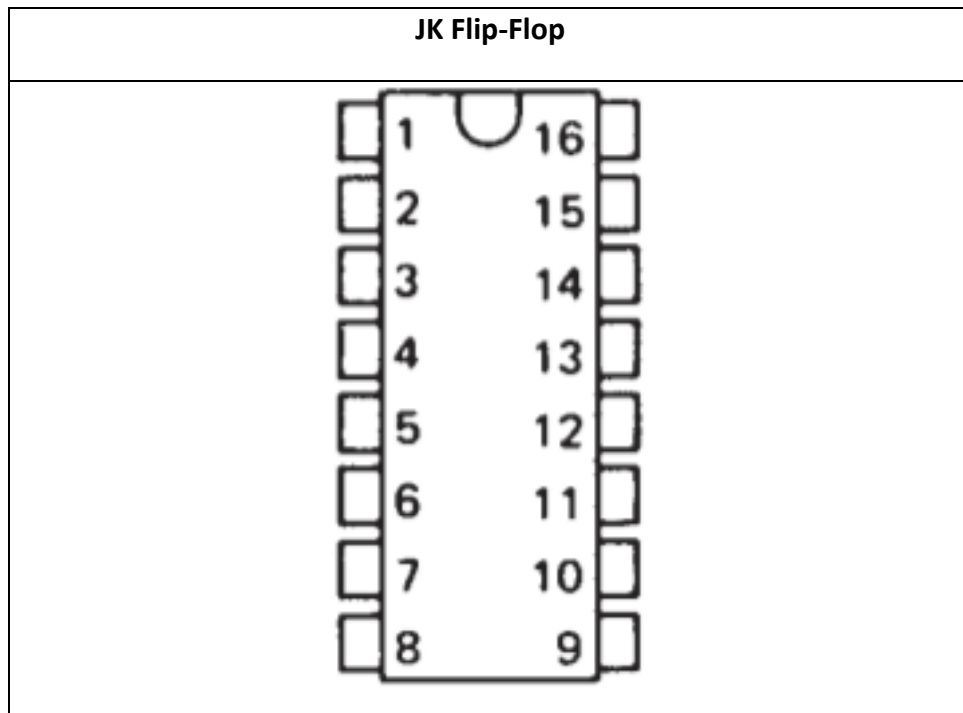
a. Read the following webpages to help you better understand 1) what a flip flop is, and 2) how a J-K flip flop operates:

i. Flip Flops: <http://computer.howstuffworks.com/boolean4.htm>

ii. The J-K Flip-Flop: <http://computer.howstuffworks.com/boolean5.htm>

2. Look up the data sheets for the parts used in the experiment.

a. Label all pins according to the data sheet:



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b. Find the following specifications for each IC:

Recommended (Nominal) Operating Voltages	
	JK Flip-Flop
V_{CC}	
V_{IL}	
V_{IH}	
V_{OL}	
V_{OH}	

3. **Fill out the truth table.**

Find logic inputs J and K to set the flip-flop to Q=0 and Q=1, respectively.

J	K	Q
		0
		1