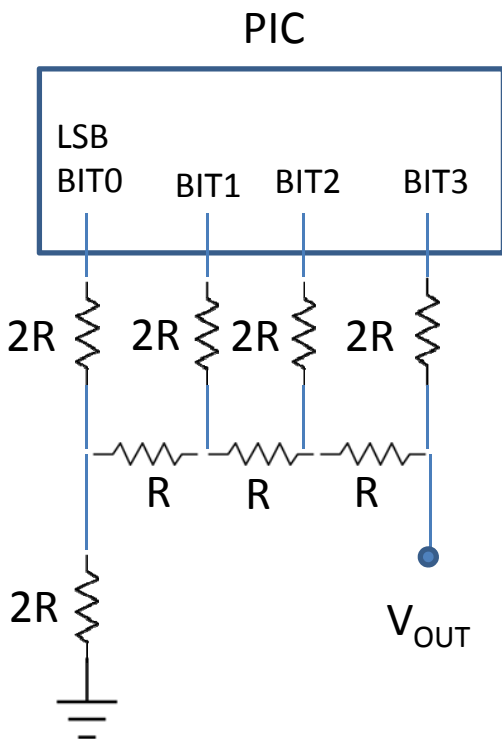


Digital to Analog Converter Lab

Build a 4 bit Digital to Analog Converter (DAC) pictured in the image below. Write a program that changes the values of each pin, going from 1 to 15. Then, using an oscilloscope, show the voltage changes at each increment. The chart below is provided to help you work out the voltages.

$$V_{OUT} = V_{CC} \times VAL / 2^{BITS}$$



VAL	V_{OUT}
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	