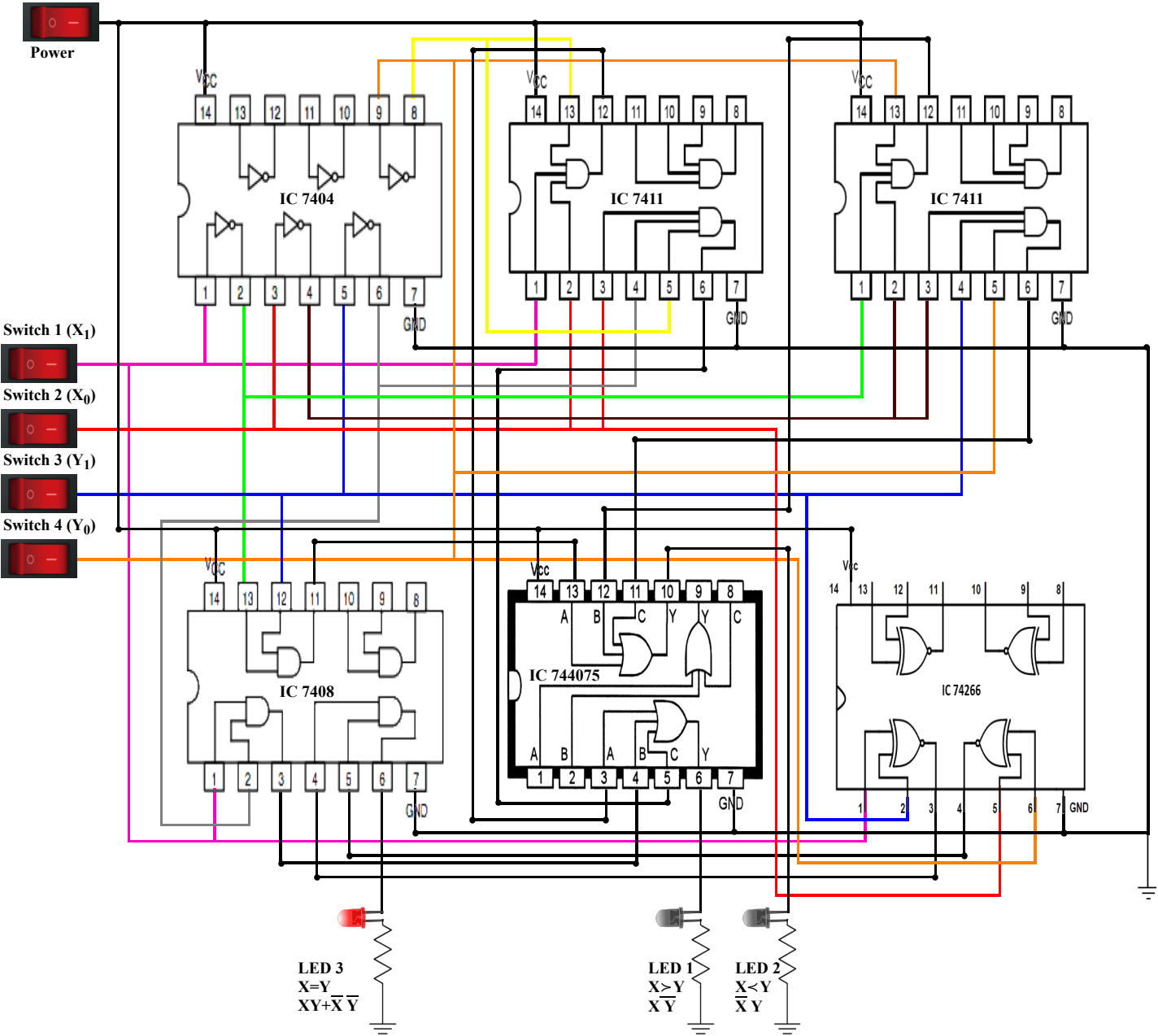


Instructions

Construction of 2-Bit Comparator and verification of its operation

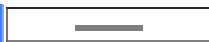



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TRUTH TABLE							
Serial No.	X_1	X_0	Y_1	Y_0	$X>Y$	$X<Y$	$X=Y$
1	0	0	0	0	0	0	1
2	0	0	0	1	0	1	0
3	0	0	1	0	0	1	0
4	0	0	1	1	0	1	0
5	0	1	0	0	1	0	0
6	0	1	0	1	0	0	1

COLOR OF INPUTS	
Color	Inputs
	X_1
	\bar{X}_1
	X_0
	\bar{X}_0
	Y_1

7	0	1	1	0	0	1	0
8	0	1	1	1	0	1	0
9	1	0	0	0	1	0	0
10	1	0	0	1	1	0	0
11	1	0	1	0	0	0	1
12	1	0	1	1	0	1	0
13	1	1	0	0	1	0	0
14	1	1	0	1	1	0	0
15	1	1	1	0	1	0	0
16	1	1	1	1	0	0	1

	Y ₁
	Y ₀