Experiment Name: 2-bit comparator verification with circuit.

Roll:1710776121

Session: 2016-17

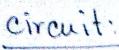
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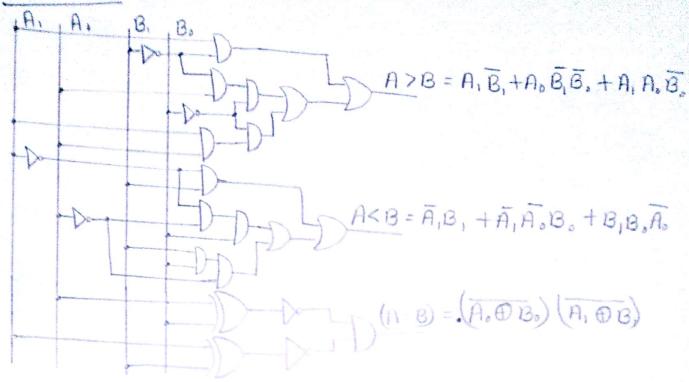
Date: 26-02-2018

Enperiment: 2-bit comparator verification with circuit.

Theory: Comparator is a digital electronics device which can compare between two binary numbers if they are equal or greater or less than one another. Two bit comperator composes between two binary numbers of two digit and give output in only one of those states equal, less or greater.

Instruments: wire, bread-board, power source, Not gate. AND gate. OR gate, xor gate.





Truth Table:

A	Ao		Bi	B.	Verification	A>B	AKB	A=B
0	0		0	0		0	D	1
0	0		0	1	~	D	1	D
0	0		1	0	1	0	1	0
Ö	0		1	1	1	0	1	0
D	1		0	0	~	1	0	0
υ	1		0	1	~	0	0	1
0	entragical entrage and the street		1	0	~	0	1	0
0	1_1_		1	11		0	1	0
1	0	L-Landway TD 1974	0	0	1	1	0	0
1-1-	10		D	11	V	1	0	0
-	D			0	V	0	0	1
	-		-	1		0	A Company of the Company	0
	erano Neprakaman - a p		10		A CONTRACTOR OF THE PARTY OF TH	M	0	0
-	under statement to the second		1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	0	0
1				10		1	0	0
Louisian		- Imageness			A second of the second	0	0	

Result and discussion: From the circuit we have designed the results we got are similar as the ansers from logic. The results we got are volid so the circuit and equations are right.

Pre-caustion:

- 1. connect the circuit when design is complete
- 2. Please cheack the circuit before connecting.
 - 3. Ware shoes in the lob.
 - 4. After finishing enperiment switch off the power source.