Experiment Name: Implementation of full adder using decoder.

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Session: 2016-17

Course: CSE-2112

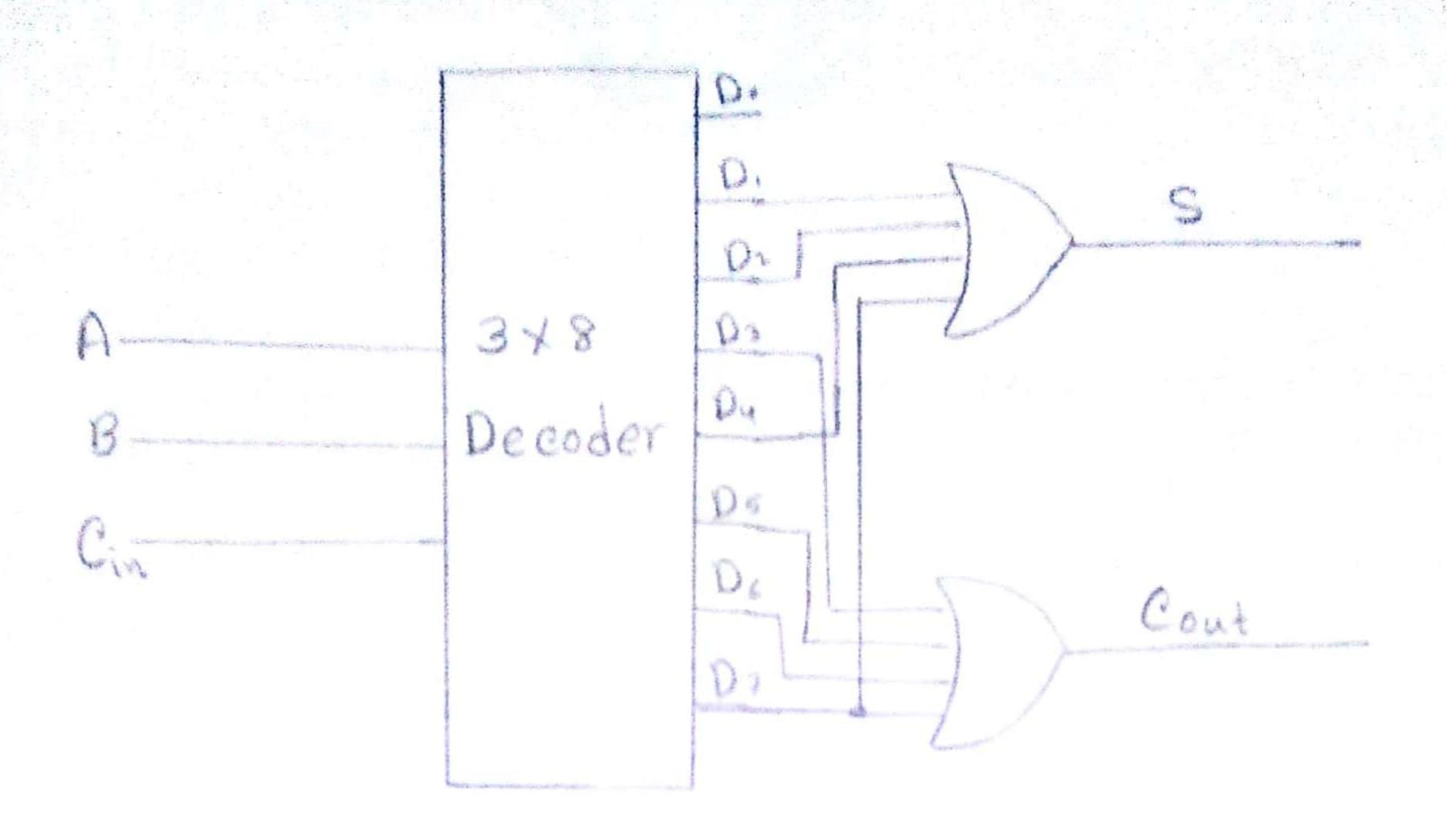
Date: 23-04-2018

Experiment: Implementation of full adder using decoder.

Theory: A 3x8 Decoder has 3 input line and 23 or 8 output line. We can easily use the three inputs as input of full adder and can find output from 8 output line of full adder. To do this we need two or gate to find sum and carry from the output of decoder. Sum is with D., D2, D4, D7. And carry is with D3. D5. D6. D7. There no need of Do in adder.

Instruments: wire, bread-board, power source decode IC (74HC230) and 4 input or gate

Circuit:



Truth Toble:

A	13		Remor		
0	0	0			0
0	0	1		1	0
0	1	0		1	0
0	1	9		0	1
1	0	0)	0
	0	1		0	1
	1	0	~	0	1
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Result and Discussion: From the circuit we have desinged which results we get is similar to the result of full adder. So the circuit and logics are right.

Pre-coustion:

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