# CSE 260 LAB - 7

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2010402
Seetin: 11

Experiment Names Design a Circuit that outputs 2's Complement If a 3 bit numbers using encoder mel decoder.

Objective:

Doing the experiment we will be able to understand the avorce of encoder and decoders.

Being able to design the internal circuit for encoder 2 decoder.

He Would know to design the circuit for 2's complement

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Equipments:

1.7415138

2.74L5148
2.1061CSTATE

3. LOGICSTATE

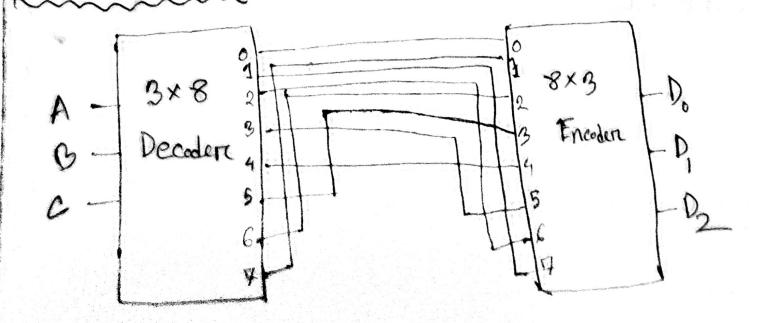
4. LOGICPROBE

Experimental Cincuit:

\* Truth table for 2's complement output

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Input				Output				A	Active low				output line connection			
Min	c	n	A	Min	1	02	D2	D.	D	2	$D_1$	D.	De	code	En	codup
0	0	0	0	0		0	0	0	-	1	1			O		0
1	0	0	1	17		1	1	1		ь	0	0	9	1	7	Z
2	0	1	0	6	•	1	1	6		O	0	1		2		6
B	0	1	4	3	3	1	0	1		O	1	0		S.		5
4	1	6	0	ý	4		0	) (	O	0	1	1		4		4
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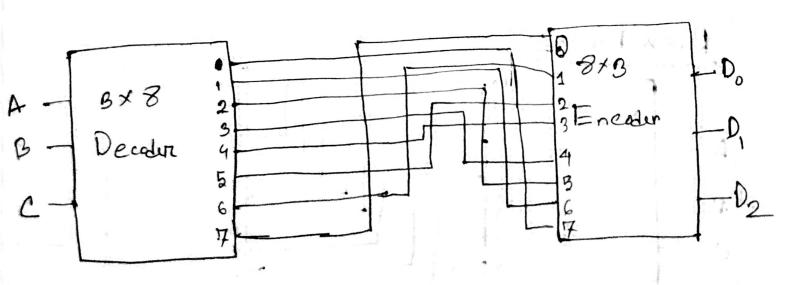
## Block Dingrum:



#### 2) Truth table for 13 complement:

6 A										
	Input			Output						
<u> </u>	B	A	Minterm	Minterm	D2 .	D11	Do			
0	0	0	0	7 0	1	1	1			
0	0	1	1	6	1	1	0			
0	1 0	0	2	G	1	0	1			
0	1	1	3	4	1	0	0			
1	0	0	4	3	0	1	1			
1	0	1	3	2	0	2	6			
1	1	0	6	4	0	0				
1		1		0	0		1			
4	1	7 -	7			0	0			

### Block Diagram:



# D' We will design a BCD to Excess-3 Conventers.

	Inpu	energina din se producente energia. Silla	enteller visit visit problektion held visit v	A service of the serv	OUTPUT :							
D	C	B	A	prin	Truster a	Da	D2	D		D	0	
0	0	0	0	0	3	0	0		1	-		
0	0	0	1	1	4	0	1	and the second	D	Company of the Company	0	
0	0	<b>1</b>	0	2	3	0		1	0	AND CONTRACT OF MANAGEMENT AND CONTRACT OF	1	
0	0		1	3	C	0	1		1	And the second control of the second control	6	
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0	1	0		5	8	1		0	0		6 Stephanological Las	
0	1		C	G	9	1	-	0	O		1	- September 19 and 19 a
0	1	1	1	17	10	1		O		1	U	A STANSON OF THE PROPERTY OF THE PARTY OF TH
1	0	0	O	8	11	1	1	0	1		1	Section of the second
1	O	O	1	9	12		The second second second	1	0		0	3

