Experiment Name: Implementation of 4

Variable logic function using 8X1 MVX.

Eg. F(1,3,4,7,10,15)

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Course: CSE-2112

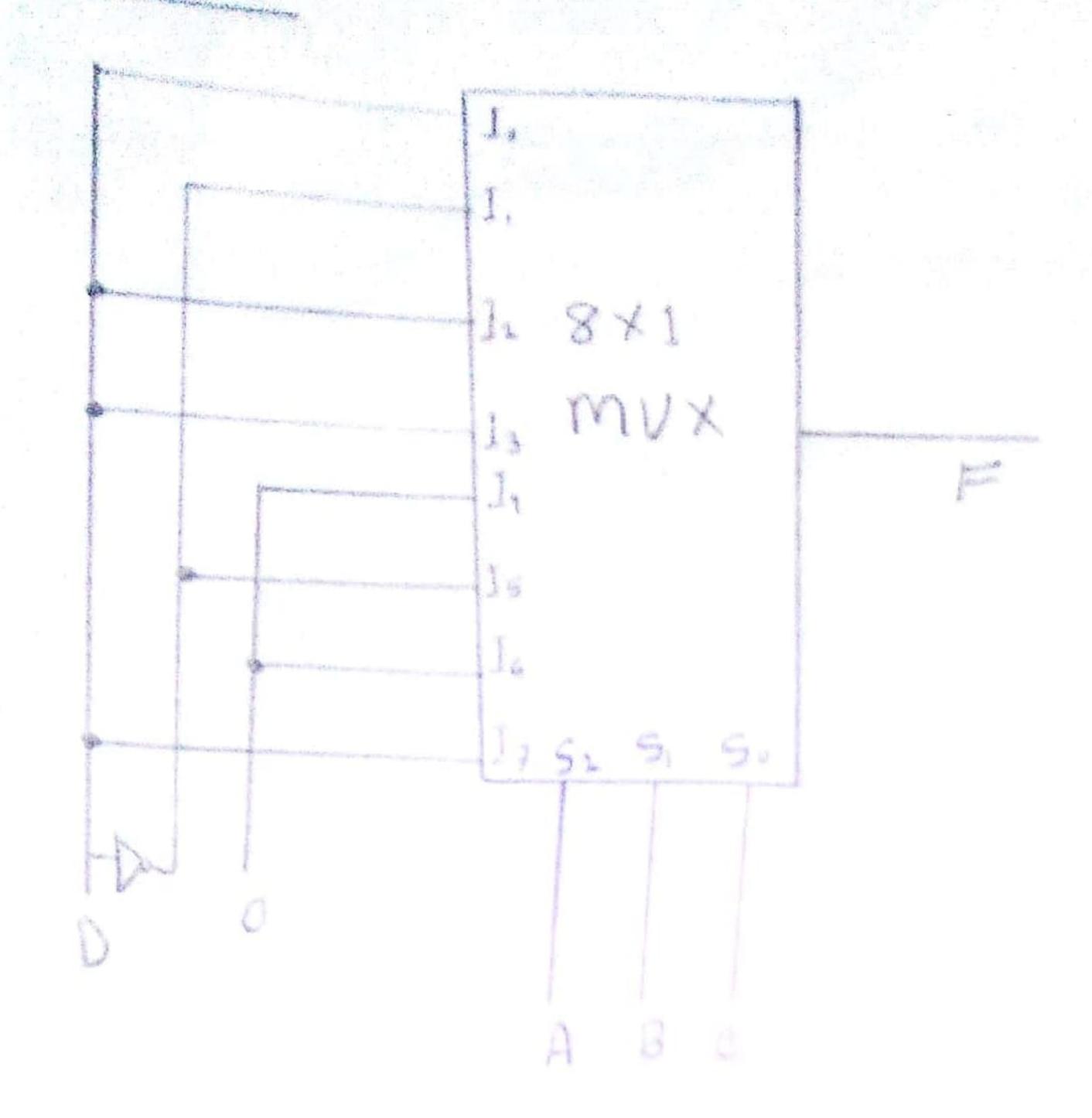
Date: 23-04-2018

Experiment: Implementation of 4 variable logic function using 8x1 Mux. Eg. F(1.3.4. 7.10.15)

Theory: MUX or multiplener is a digital logic circuit which takes 2ⁿ input and give I output n selector work there to select what input line will work as output line. In this enperiment we will implement a logic function using 8×1 MUX.

Instruments: wire, bread-board, power source, Not gate (74204) and 8X1 MUX IC (7425151).

Circuit



Truth Table:

Volue	A	B	C	D	F	Output	Position	Romark
0	0	0	0	0	0			1 6
1	0	0	0	1	1	F = 0	Lo	No.
2	0	0	1	0	0			
3	0	0	1	1	*	F = 0	1	1
4	0	1	0	0		-		1
5	0	†	0	1	0	F=D	72	1
6	0	1	1	0	0		*	
7	0	1	1	(1	+=D	13	-
8)	0	0	0	0	P	. April	The same of the same of
9	1	0	0	(0	1-0	14	1
10	1	O	1	0	1	and the same of th		3
11	,	0	1	1	0	TEU	15	L
12		1	0	0	0	poer.	+	Contract to the Contract of
13	, ,	1	O	ţ	0	r=0	16	
14	,	1	1	O	0	-	auto contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata de la contrata de la contrata del contrata de la contrata del la con	1
19	1	1	1	1		1 - 0	17	1

Result and Discussion: From the circuit we have designed the results we got is same to the results from digital logic so the circuit and equation and logics are right.

Pre-coustion:

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