

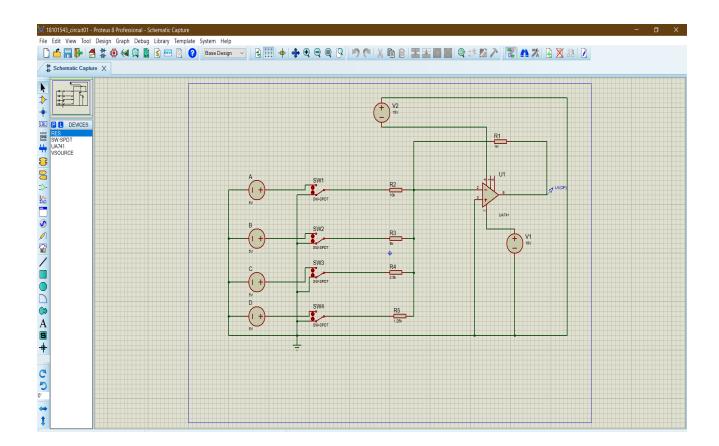
CSE350, LAB04

Submitted by:

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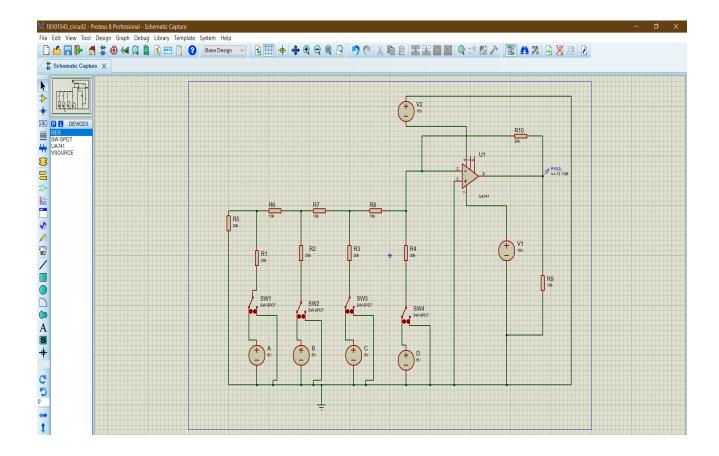
Datasheet for circuit 1:

Configuration	D	С	В	A	Output Voltage, Vo (V)
1	0	0	0	0	-0.0027
2	0	0	0	5	-0.49
3	0	0	5	0	-0.99
4	0	0	5	5	-1.49
5	0	5	0	0	-1.99
6	0	5	0	5	-2.49
7	0	5	5	0	-2.99
8	0	5	5	5	-3.49
9	5	0	0	0	-3.99
10	5	0	0	5	-4.49
11	5	0	5	0	-4.99
12	5	0	5	5	-5.49
13	5	5	0	0	-5.99
14	5	5	0	5	-6.49
15	5	5	5	0	-3.49
16	5	5	5	5	-7.49



Datasheet for circuit 2:

Configuration	D	С	В	A	Output Voltage, Vo (V)
1	0	0	0	0	0.0049
2	0	0	0	5	-0.62
3	0	0	5	0	-1.245
4	0	0	5	5	-1.869
5	0	5	0	0	-2.49
6	0	5	0	5	-3.11
7	0	5	5	0	-3.74
8	0	5	5	5	-4.36
9	5	0	0	0	-4.99
10	5	0	0	5	-5.81
11	5	0	5	0	-6.24
12	5	0	5	5	-6.86
13	5	5	0	0	-7.49
14	5	5	0	5	-8.11
15	5	5	5	0	-8.74
16	5	5	5	5	-9.36



Am. to the auer, no. 3-02

Here full step size of the eineuit is 15. we get this by plotting ere values in a greath for both the circuits.

Amor to the auto-no-6-03

Resolution is IV for the LSB of the

Ano. to the area no. g-04

Herce, my id is = 18 10 15 43. So, sum of last

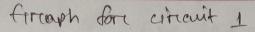
2 digits are is (4+3)=7. So, high input is 7.

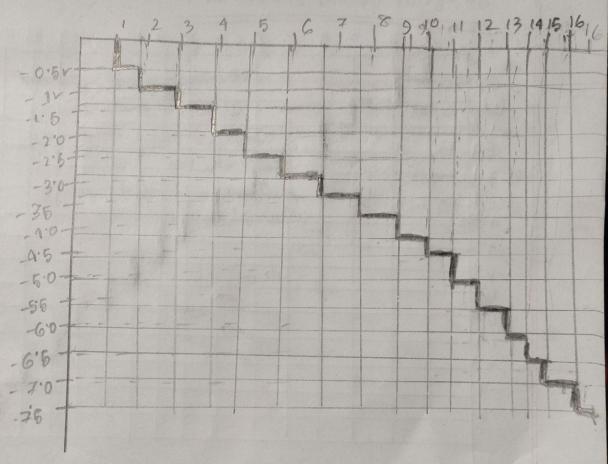
So, from circuit 2 by voing FV as high input we
get trese outputs:

get th	ese our	purs			
Input Condigutation	D	C	В	A	voltage, Volv)
1	0	0	0	0	0.0049
2	0	0	0	7	-0.87
3	0	0	7	0	-1-74
4	0	0	7	7	-2.61
5	0	7	0	0	-3.99
6	0	7	0	7	-9.36
7	0	7	7	0	= 5.24
8	0	7	7	7	-6:11
9	7	0	0	0	-6.99
10	7	0	0	7	-7.86
1/	7	0	7	0	
12	7	0	7	7	-8.74
13	7	7	0	0	-9-61
14	7	7	0		-10.49
15	7	7	7	7	11:36
16	7	7	A	7	-12'24 -13·11

Ans to the dup, no-8-06

for the 1st cinemit the output is a stair ene e waveform and each step being roughly -0.5 v each. the en output current in vor. So, when the vot is increased on decreened very in the step in the step output will charter proporutionally.





Ernoph fore circuit 2:

