

LAB1: #3

Turn off

hexadecimal

	D3	D2	D1	D0	Sa	Sb	Sc	Sd	Se	Sf	Sg	
	X	X	X	X	1	1	1	1	1	1	1	
0	0	0	0	0	0	0	0	0	0	0	1	'01' = 0
1	0	0	0	1	1	0	0	1	1	1	1	'4F' = 1
2	0	0	1	0	0	0	1	0	0	1	0	'12' = 2
3	0	0	1	1	0	0	0	0	1	1	0	'06' = 3
4	0	1	0	0	1	0	0	1	1	0	0	'4C' = 4
5	0	1	0	1	0	1	0	0	1	0	0	'24' = 5
6	0	1	1	0	0	1	0	0	0	0	0	'20' = 6
7	0	1	1	1	0	0	0	1	1	1	1	'0F' = 7
8	1	0	0	0	0	0	0	0	0	0	0	'00' = 8
9	1	0	0	1	0	0	0	0	1	0	0	'04' = 9
A 10	1	0	1	0	0	0	0	1	0	0	0	'08' = 10
B 11	1	0	1	1	1	1	0	0	0	0	0	'60' = 11
C 12	1	1	0	0	0	1	1	0	0	1	0	'32' = 12
D 13	1	1	0	1	1	0	0	0	0	1	0	'42' = 13
E 14	1	1	1	0	0	1	1	0	0	0	0	'30' = 14
F 15	1	1	1	1	0	1	1	1	0	0	0	'38' = 15

$$\Sigma(1,4,11,13) S_g = \overline{D_3} \overline{D_2} \overline{D_1} D_0 + \overline{D_3} D_2 \overline{D_1} \overline{D_0} + D_3 \overline{D_2} D_1 D_0 + D_3 D_2 \overline{D_1} D_0$$

$$\Sigma(5,6,11,12,14,15) S_b = \overline{D_3} D_2 \overline{D_1} D_0 + \overline{D_3} D_2 D_1 \overline{D_0} + D_3 \overline{D_2} D_1 D_0 + D_3 D_2 \overline{D_1} D_0 + D_3 D_2 D_1 \overline{D_0} + D_3 D_2 D_1 D_0$$

$$\Sigma(2,12,14,15) S_c = \overline{D_3} \overline{D_2} D_1 \overline{D_0} + D_3 \overline{D_2} \overline{D_1} \overline{D_0} + D_3 D_2 D_1 \overline{D_0} + D_3 D_2 D_1 D_0$$

$$\Sigma(1,4,7,10,15) S_d = \overline{D_3} \overline{D_2} D_1 D_0 + \overline{D_3} D_2 \overline{D_1} \overline{D_0} + \overline{D_3} D_2 D_1 D_0 + D_3 \overline{D_2} D_1 \overline{D_0} + D_3 D_2 D_1 D_0$$

$$\Sigma(1,3,4,5,7,9) S_e = \overline{D_3} \overline{D_2} \overline{D_1} D_0 + \overline{D_3} \overline{D_2} D_1 D_0 + \overline{D_3} D_2 \overline{D_1} \overline{D_0} + \overline{D_3} D_2 \overline{D_1} D_0 + \overline{D_3} D_2 D_1 D_0 + D_3 \overline{D_2} \overline{D_1} D_0$$

$$\Sigma(1,3,7,12,13) S_f = \overline{D_3} D_2 D_1 D_0 + \overline{D_3} D_2 D_1 \overline{D_0} + \overline{D_3} D_2 \overline{D_1} D_0 + \overline{D_3} D_2 \overline{D_1} \overline{D_0} + D_3 D_2 D_1 D_0 + D_3 D_2 D_1 \overline{D_0}$$

$$S_g = \overline{D_3} \overline{D_2} \overline{D_1} \overline{D_0} + \overline{D_3} \overline{D_2} D_1 D_0 + \overline{D_3} D_2 D_1 D_0$$

$$\Sigma(0,1,7)$$