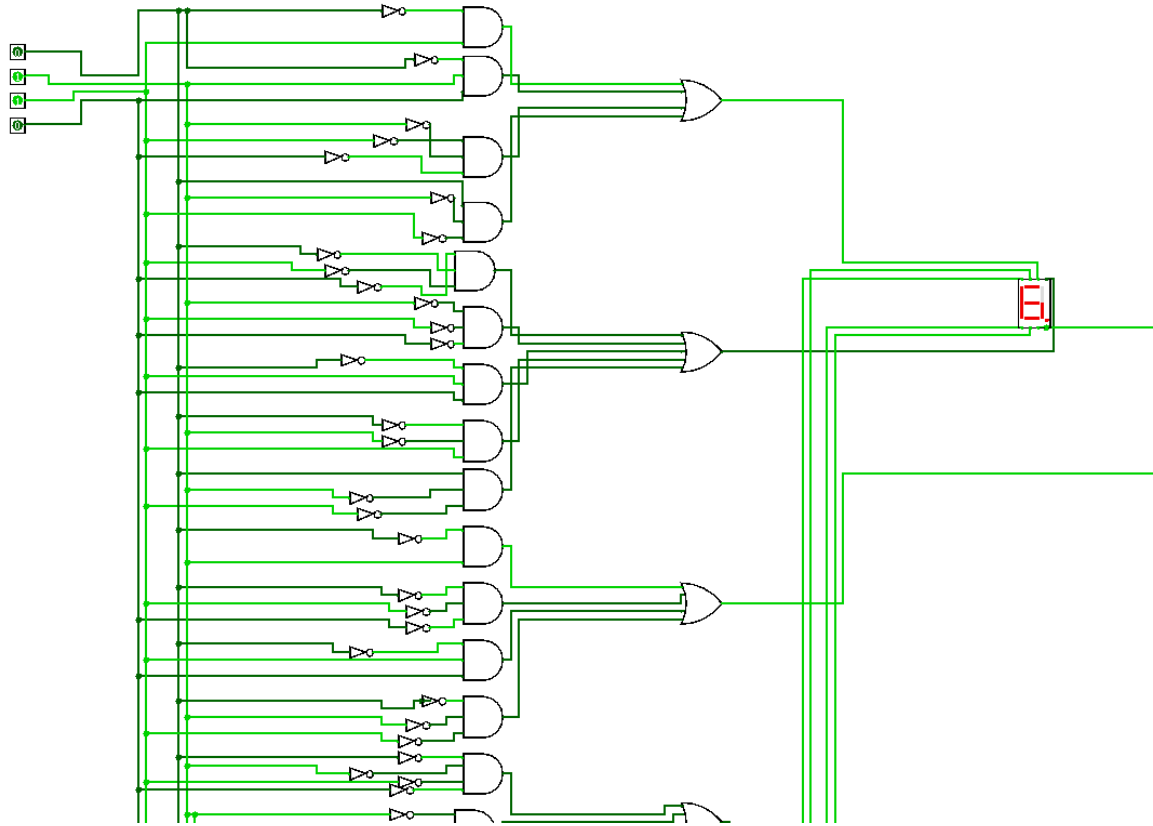
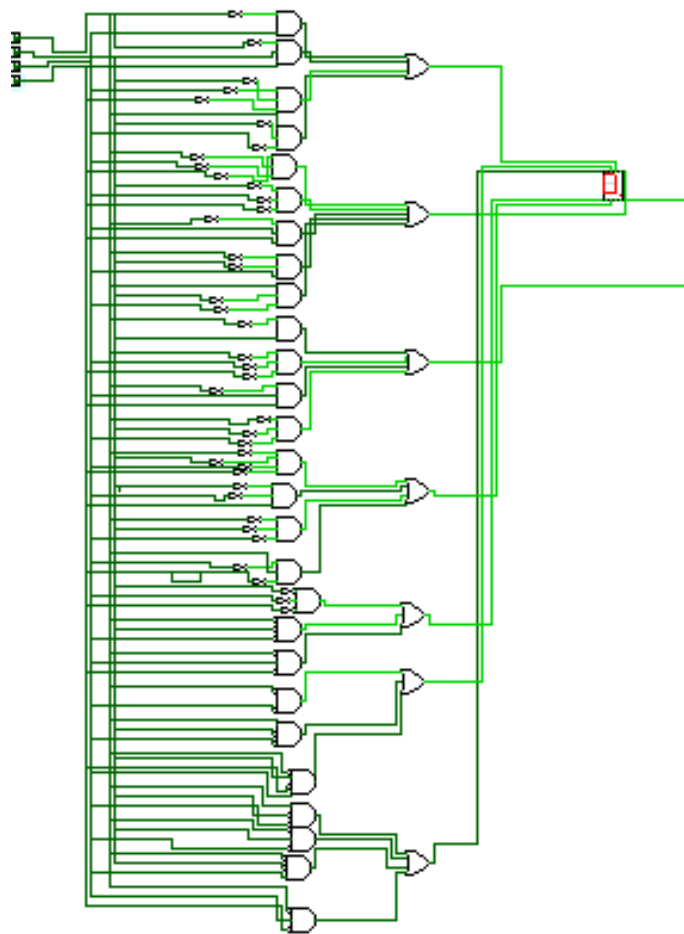


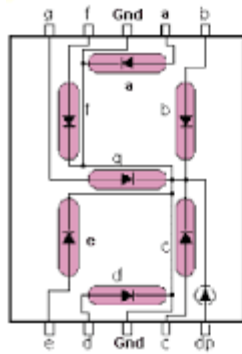
Práctica 4 - Decoder para display 7 segmentos LED de 4 dígitos

DISEÑO ESQUEMATICO

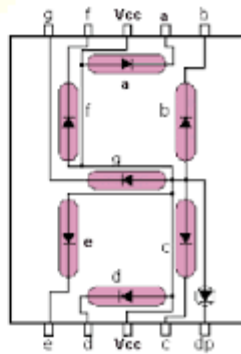




Common Cathode



Common Anode



A1	A2	A3	A4		
0	0	0	0	0	0
0	0	0	1	1	1
0	0	1	0	2	2
0	0	1	1	3	3
0	1	0	0	4	4
0	1	0	1	5	5
0	1	1	0	6	6
0	1	1	1	7	7
1	0	0	0	8	8
1	0	0	1	9	9

Anodo Comun							
Numero	A	B	C	D	E	F	G
Enable	0	0	0	0	0	0	1
1	1	1	0	0	1	1	1
1	2	0	0	1	0	0	1
1	3	0	0	0	0	1	1
1	4	1	0	0	1	1	0
1	5	0	1	0	0	1	0
1	6	0	1	0	0	0	0
1	7	0	0	0	1	1	1
1	8	0	0	0	0	0	0
1	9	0	0	0	0	1	0

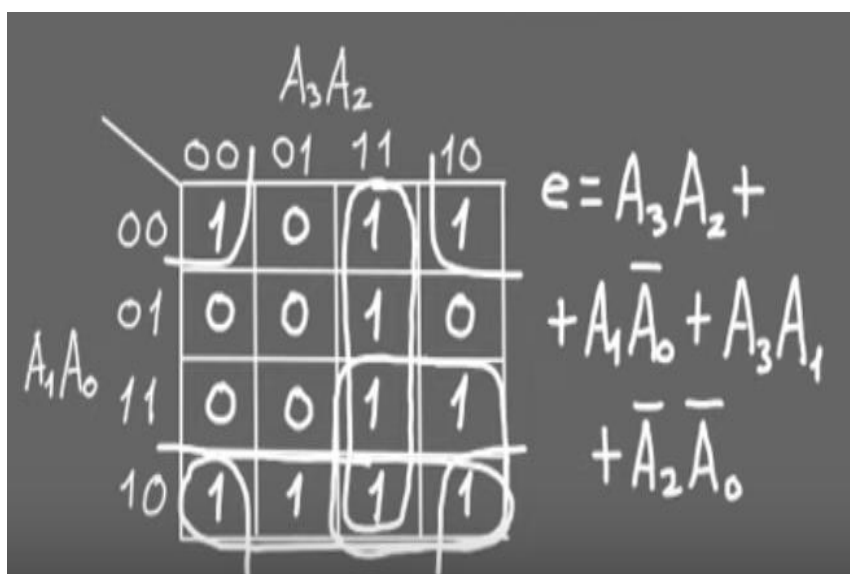
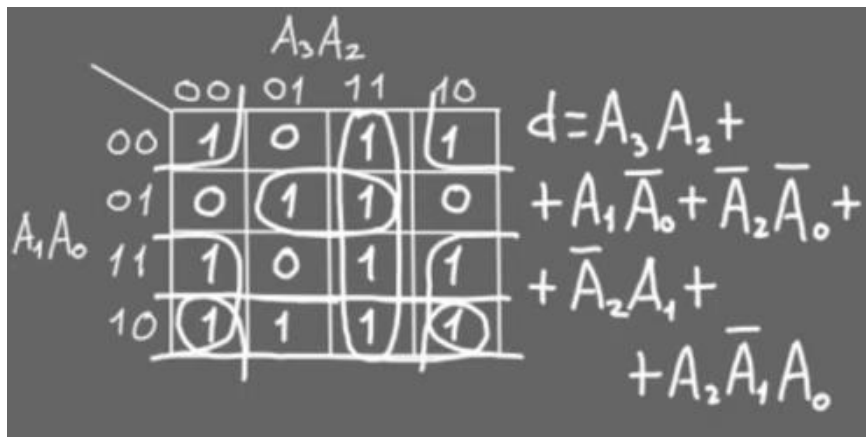
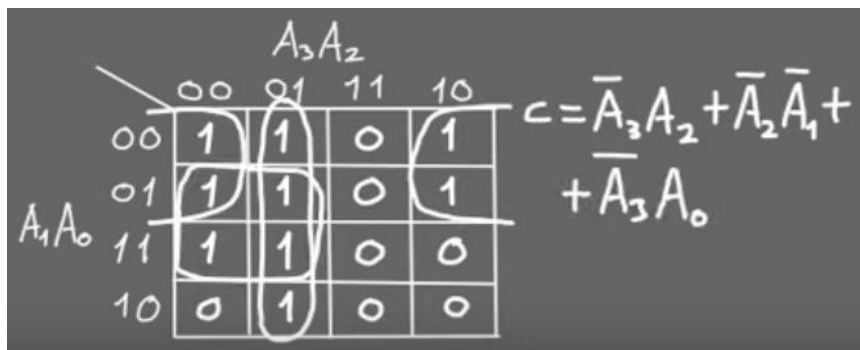
K MAPS

$a = A_3 + A_1 + A_2 A_0 + \bar{A}_2 \bar{A}_0$

		$A_3 A_2$			
		00	01	11	10
$A_1 A_0$	00	1	0	1	1
	01	0	1	1	1
	11	1	1	1	1
	10	1	1	1	1

$b = \bar{A}_3 \bar{A}_2 + \bar{A}_3 \bar{A}_1 \bar{A}_0 + \bar{A}_3 A_1 A_0$

		$A_3 A_2$			
		00	01	11	10
$A_1 A_0$	00	1	1	0	1
	01	1	0	0	1
	11	1	1	0	0
	10	1	0	0	0



		$A_3 A_2$			
		00	01	11	10
$A_1 A_0$	00	1	1	1	1
	01	0	1	1	1
	11	0	0	1	1
	10	0	1	1	1

$$f = A_3 + \bar{A}_1 \bar{A}_0 + A_2 \bar{A}_1 + A_2 \bar{A}_0$$

		$A_3 A_2$			
		00	01	11	10
$A_1 A_0$	00	0	1	1	1
	01	0	1	1	1
	11	1	0	1	1
	10	1	1	1	1

$$g = A_3 + A_1 \bar{A}_0 + A_2 \bar{A}_1 + \bar{A}_2 A_1$$