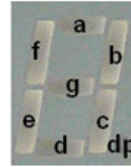
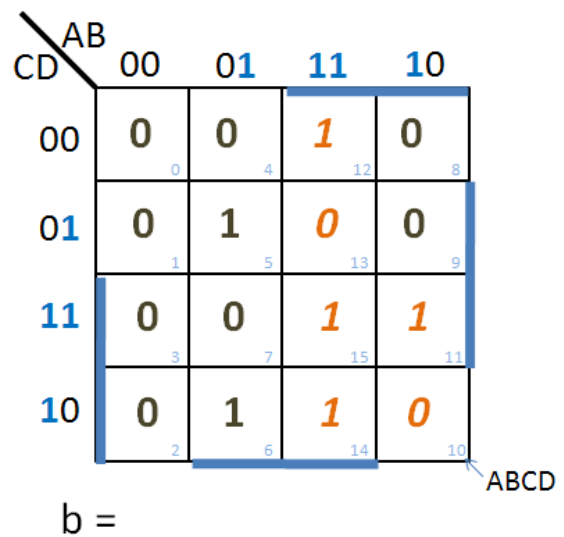
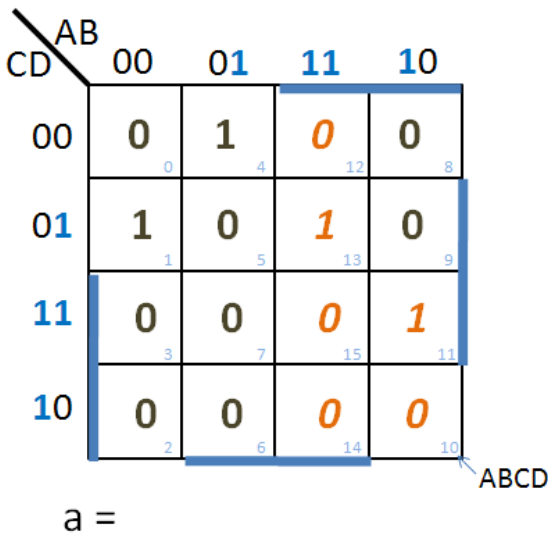


# Truth table for Hex to 7 Segment decoder

ABCD	Segments						
Bcd(3:0)	a	b	c	d	e	f	g
0000	0	0	0	0	0	0	1
0001	1	0	0	1	1	1	1
0010	0	0	1	0	0	1	0
0011	0	0	0	0	1	1	0
0100	1	0	0	1	1	0	0
0101	0	1	0	0	1	0	0
0110	0	1	0	0	0	0	0
0111	0	0	0	1	1	1	1
1000	0	0	0	0	0	0	0
1001	0	0	0	0	1	0	0
1010	0	0	0	1	0	0	0
1011	1	1	0	0	0	0	0
1100	0	1	1	0	0	0	1
1101	1	0	0	0	0	1	0
1110	0	1	1	0	0	0	0
1111	0	1	1	1	0	0	0



**Note!** Due to the fact that logic devices normally better to sink a current (instead of sourcing) will it often mean that a low output used to turn on a segment or LED



CD \ AB	00	01	11	10
00	0	0	1	0
01	0	0	0	0
11	0	0	1	0
10	1	0	1	0

c =

CD \ AB	00	01	11	10
00	0	1	0	0
01	1	0	0	0
11	0	1	1	0
10	0	0	0	1

d =

CD \ AB	00	01	11	10
00	0	1	0	0
01	1	1	0	1
11	1	1	0	0
10	0	0	0	0

e =

CD \ AB	00	01	11	10
00	0	0	0	0
01	1	0	1	0
11	1	1	0	0
10	1	0	0	0

f =

CD \ AB	00	01	11	10
00	1	0	1	0
01	1	0	0	0
11	0	1	0	0
10	0	0	0	0

g =