## ENCODER DECODER

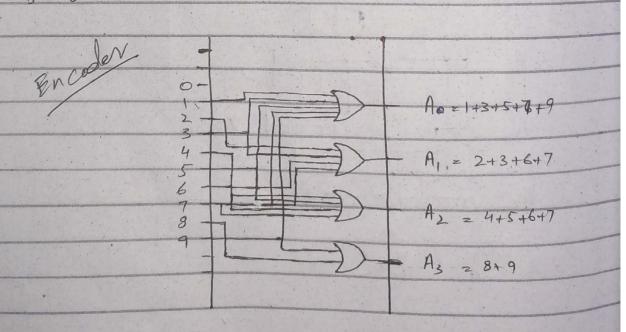
	A. A. A. A.	abcdefg
0	0000	111110
1	0001	0001100
2	0010	0110111
3	00 11	001111
4	0100	1001101
2	0101	1011011
6	0110	1111011
7	0.111	00001110
8	1000	
9	1001	1001111

Ao= \* 1+3+5+7+9

A, = 2 + 3 + 6+7

Azz 4+5+6+7

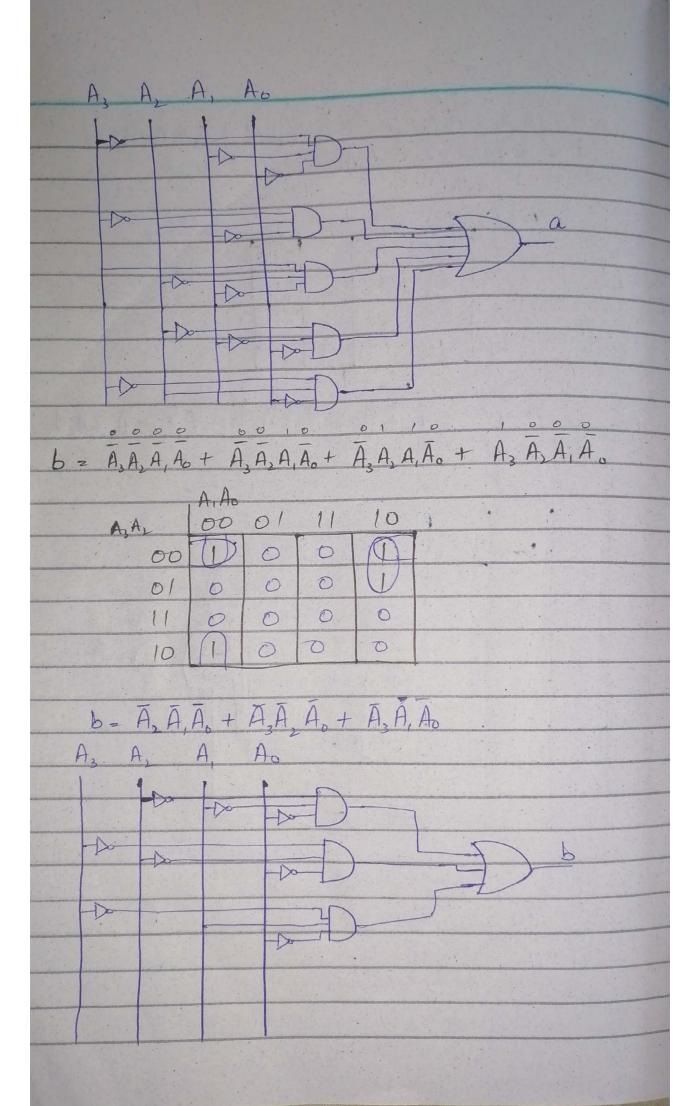
A3 = 8+9

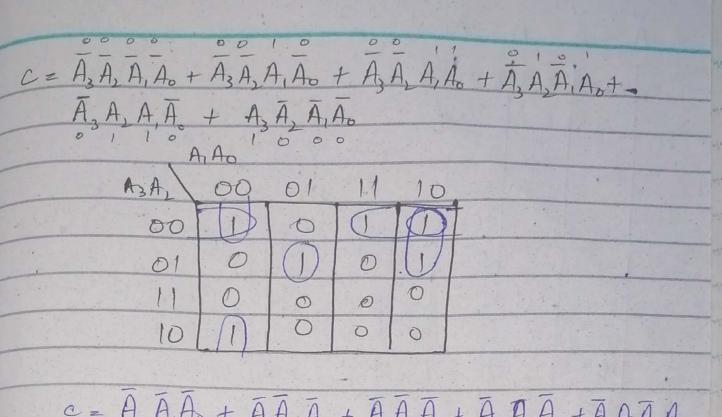


- $a = \overline{A}, \overline{A},$
- b =  $\bar{A}_3\bar{A}, \bar{A}_0\bar{A}_0 + \bar{A}_3\bar{A}, \bar{A}_0\bar{A}_0 + \bar{A}_3\bar{A}, \bar{A}_0\bar{A}_0 + \bar{A}_3\bar{A}, \bar{A}_0\bar{A}_0 + \bar{A}_3\bar{A}_0 + \bar{A}_3\bar{A}_0\bar{A}_0 + \bar{A}_3\bar{A}_0\bar{A}_0 + \bar{A}_3\bar{A}_0\bar{A}_0\bar{A}_0 + \bar{A}_3\bar{A}_0\bar{A}_0\bar{A}_0 + \bar{A}_3\bar{A}_0\bar{A}_0\bar{A}_0\bar{A}_0 + \bar{A}_3\bar{A}_0\bar$
- $c = \overline{A_3} \overline{A_2} \overline{A_1} \overline{A_0} + \overline{A_3} \overline{A_1} \overline{A_0}$
- d =  $\bar{A}_3\bar{A}_5\bar{A}_5\bar{A}_6\bar{A}_6 + \bar{A}_3\bar{A}_5\bar{A}_6\bar{A}_6 + \bar{A}_3\bar{A}_5\bar{A}_6\bar{A}$
- $e = \bar{A}_{3}\bar{A}_{2}\bar{A}_{1}\bar{A}_{0} + \bar{A}_{3}\bar{A}_{2}\bar{A}_{1}\bar{A}_{1}\bar{A}_{1}\bar{A}_{1}\bar{A}_{1}\bar{A}_{1}\bar{A}_{1}\bar{A}_{2}\bar{A}_{1}\bar{A}_{1}\bar{A}_{1}\bar{A}_{2}\bar{A}_{2}\bar{A}_{1}\bar{A}_{1}\bar{A}_{2}\bar{A}_{$
- f =  $\bar{A}_3\bar{A}_1$ ,  $\bar{A}_0$  +  $\bar{A}_3\bar{A}_1$ ,  $\bar{A}_0$  +  $\bar{A}_3\bar{A}_2$ ,  $\bar{A}_1$ ,
- 9 =  $\bar{A}_3\bar{A}_1$ ,  $\bar{A}_1$ ,  $\bar{A}_0$  +  $\bar{A}_3\bar{A}_1$ ,  $\bar{A}_1$ ,  $\bar{A}_0$  +  $\bar{A}_3\bar{A}_1$ ,  $\bar{A}_1$ ,  $\bar{A}_1$ ,  $\bar{A}_2$ ,  $\bar{A}_3$ ,  $\bar{A}_1$ ,  $\bar{A}_0$  +  $\bar{A}_3\bar{A}_1$ ,  $\bar{A}_1$ ,  $\bar{A}_0$  +  $\bar{A}_3\bar{A}_1$ ,  $\bar{A}_0$  +  $\bar{A}_0$  +  $\bar{A}_0$

R-Map a = Ā,Ā,Ā,Ā + Ā,Ā,Ā,Ā + Ā,Ā,Ā,Ā + Ā,Ā,Ā,Ā + A,Ā,Ā,Ā,Ā + Ā,Ā,Ā,Ā + 10001

	A, Ao				
	00	01	11	10	
A3A2 00	D.	0.	0	0	
01	0	1)	0	1	
.11	0	0	0	0	
10	0	D	0	0	





C = A, A, Ao + A, A, Ao + A, A, A, A, + A, A, A, A, A, A, Ao + A, A, A, Ao

