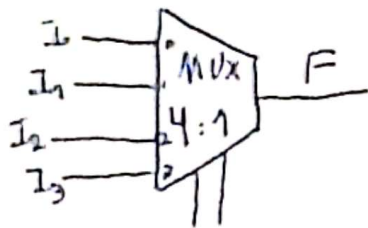
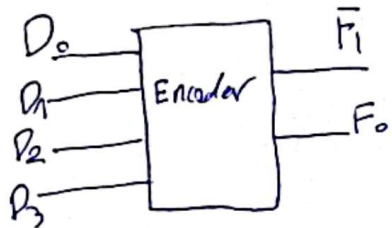
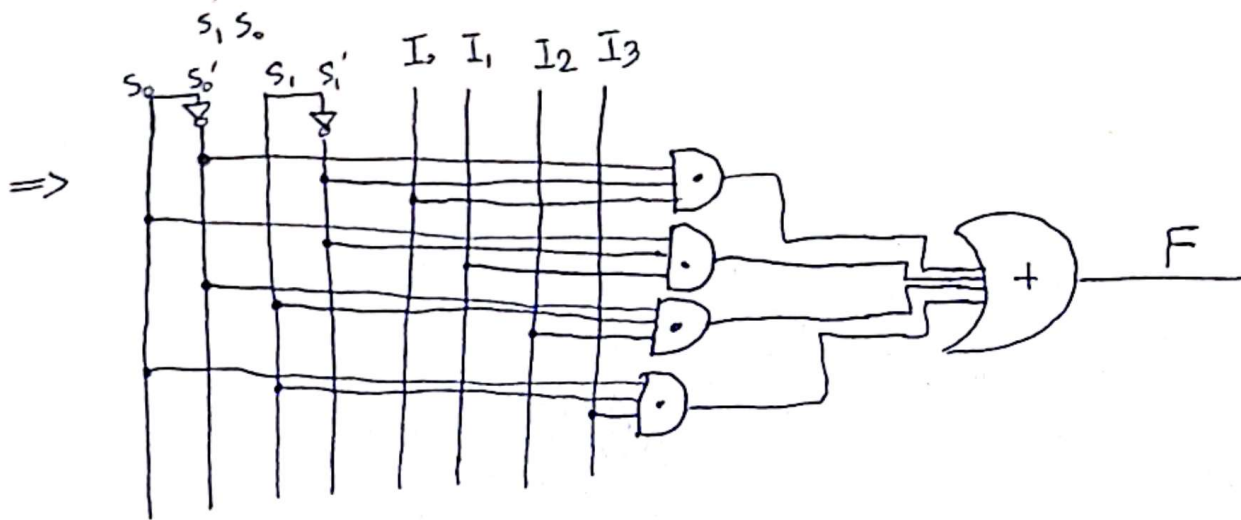


مالتی پلکسر ۱: ۴



$$\Rightarrow F = S_0' S_1' I_0 + S_0 S_1' I_1 + S_0' S_1 I_2 + S_0 S_1 I_3$$



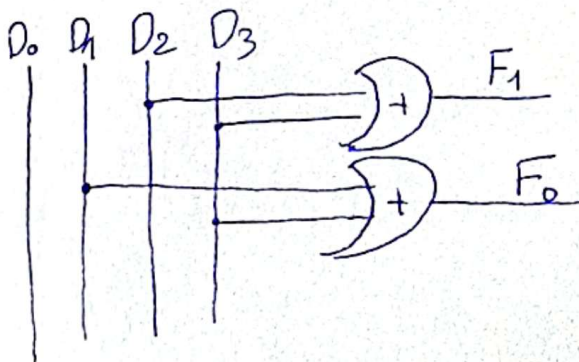
D_3	D_2	D_1	D_0
0	0	0	1
0	0	1	0
0	1	0	0
1	0	0	0

F_1	F_0
0	0
0	1
1	0
1	1

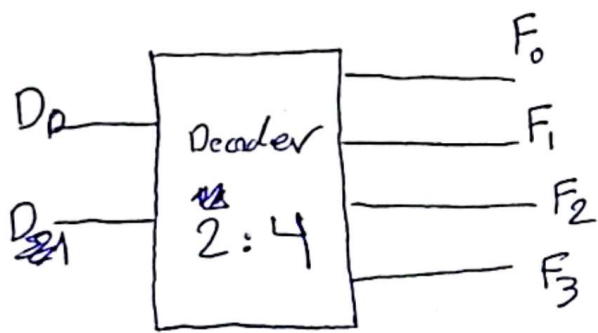
۲: ۴

انکودر

$$F_1 = D_2 + D_3, \quad F_0 = D_1 + D_3$$

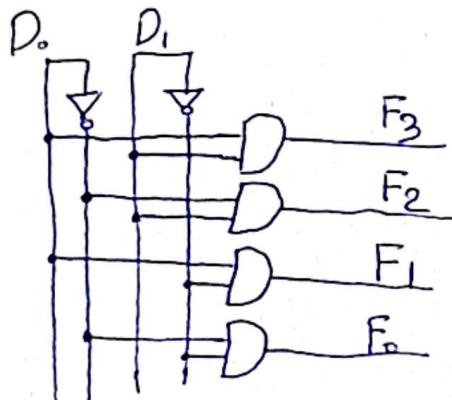


دیکد ۲:۴

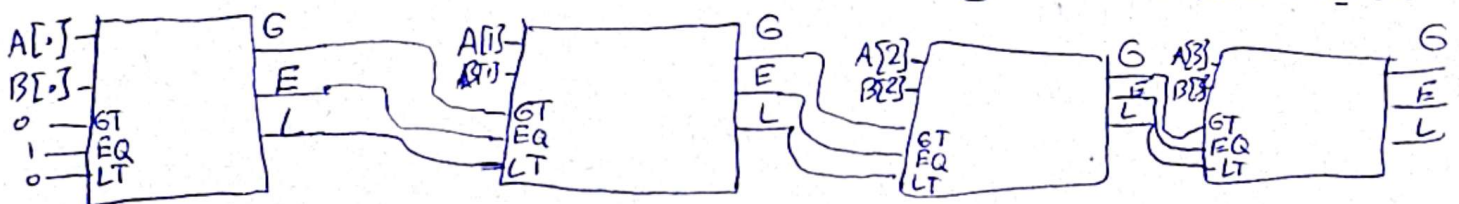


D_1	D_0	F_3	F_2	F_1	F_0
0	0	0	0	0	1
0	1	0	0	1	0
1	0	0	1	0	0
1	1	1	0	0	0

$$F_3 = D_0 D_1, F_2 = D_0' D_1, F_1 = D_0 D_1', F_0 = D_0' D_1'$$



مقایسه کننده عربیتی برای دودر $B[3:0]$, $A[3:0]$



مدار داخلی یک Comparator :

