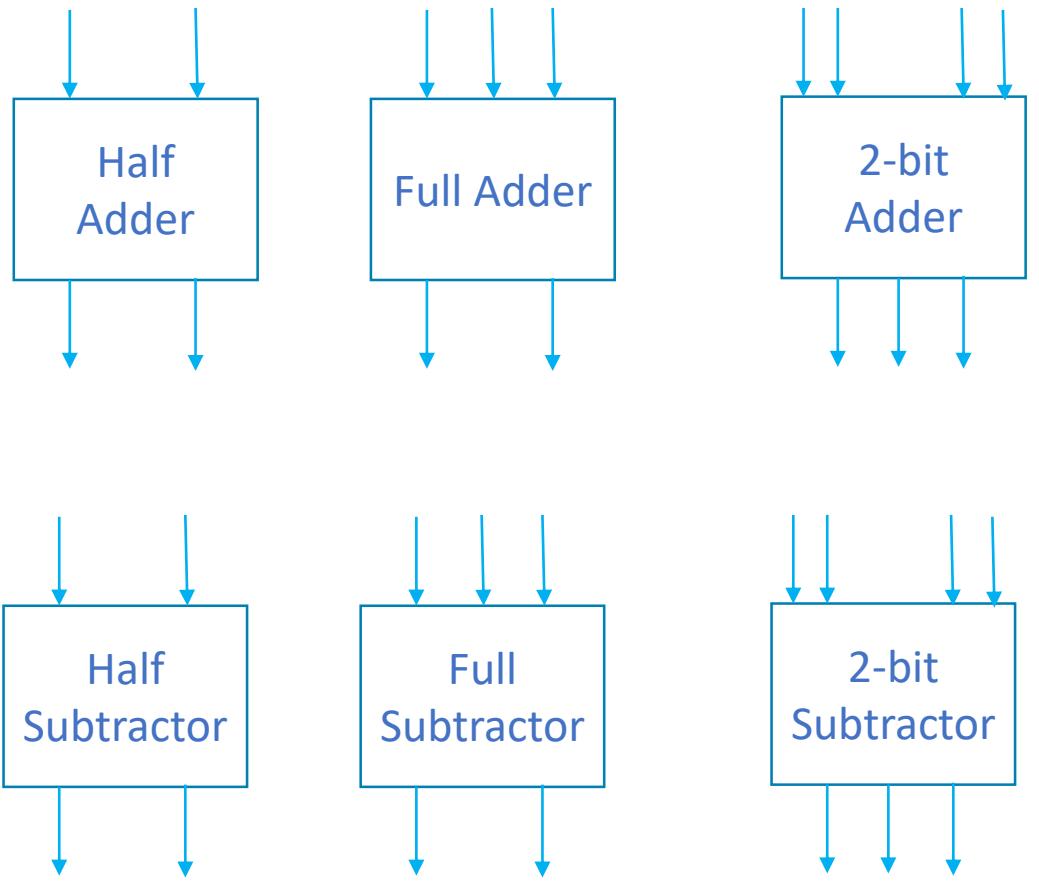


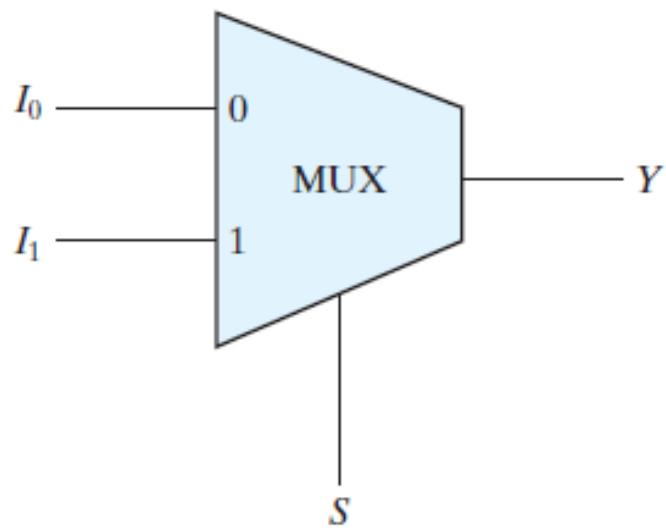
Summary (Block diagram)

Sparsh Mittal

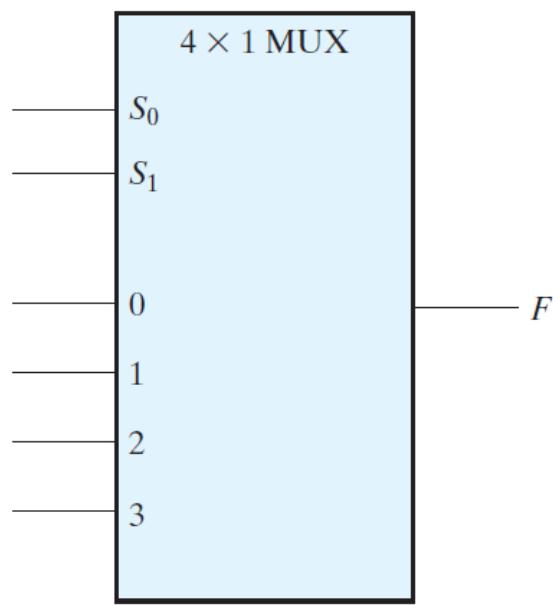


MUX

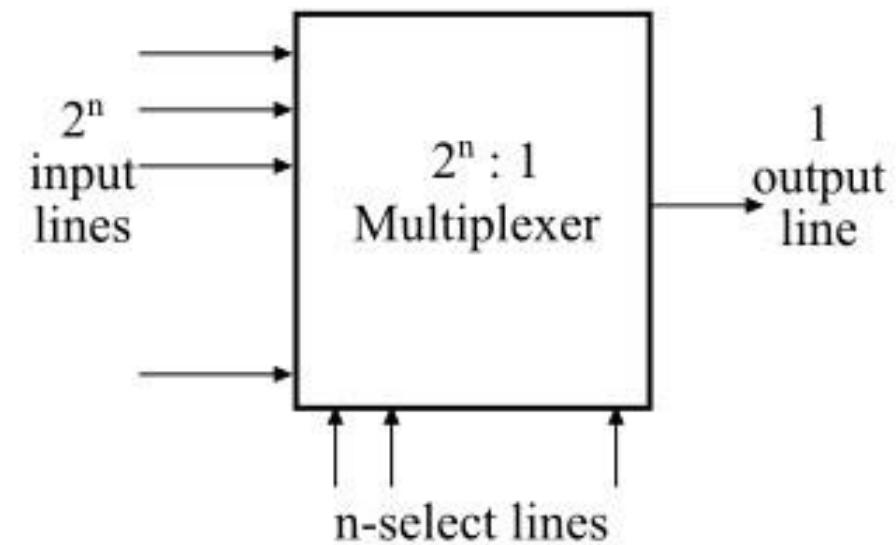
2:1 MUX



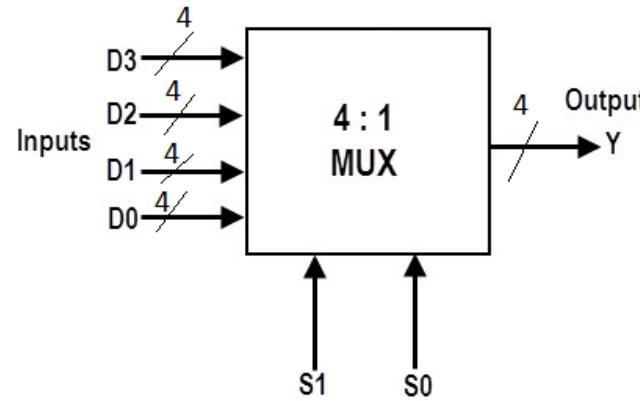
4:1 MUX



2^n :1 MUX

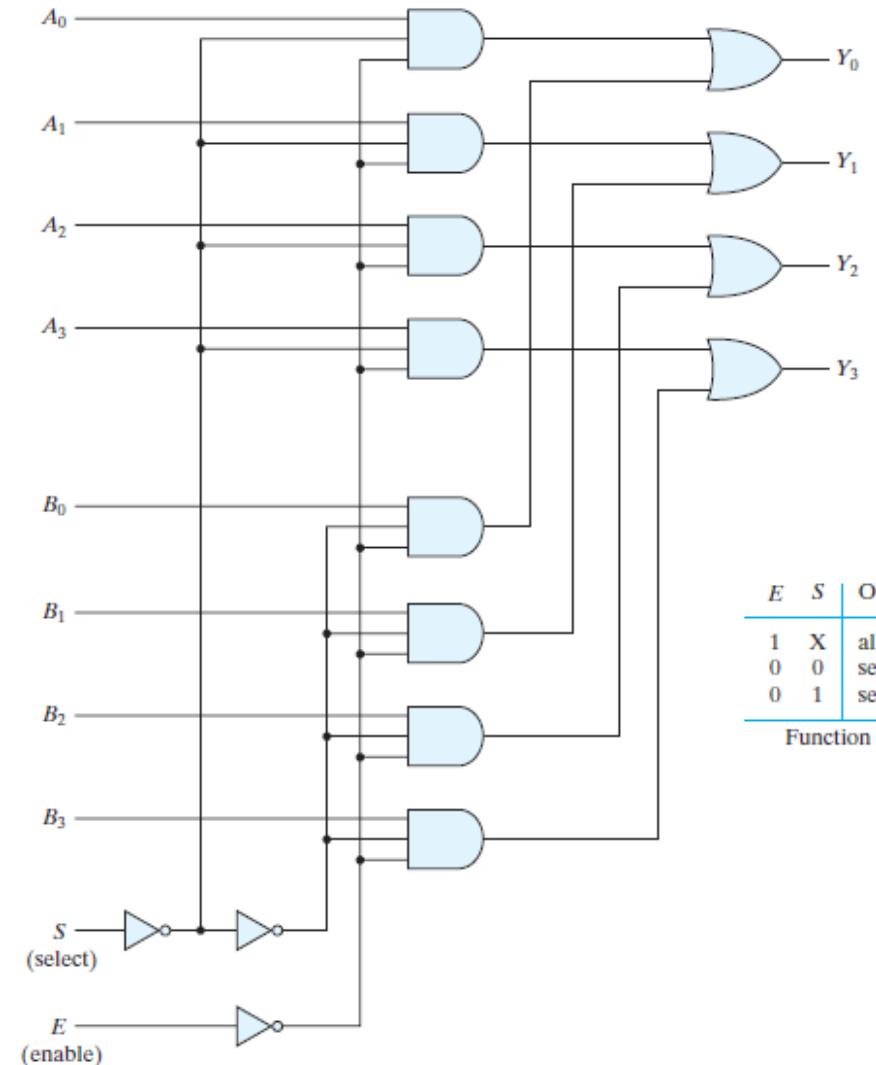
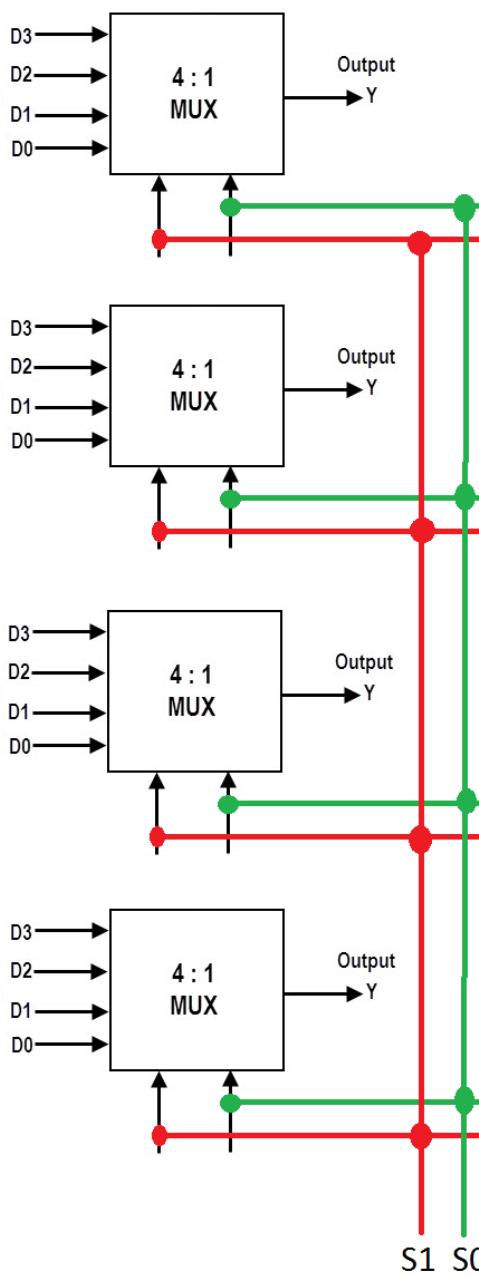


Multi-bit MUX



0	D_{03}
1	D_{02}
0	D_{01}
0	D_{00}
	Y_3
1	D_{13}
0	D_{12}
0	D_{11}
1	D_{10}
	Y_0
	Y_1
	Y_2

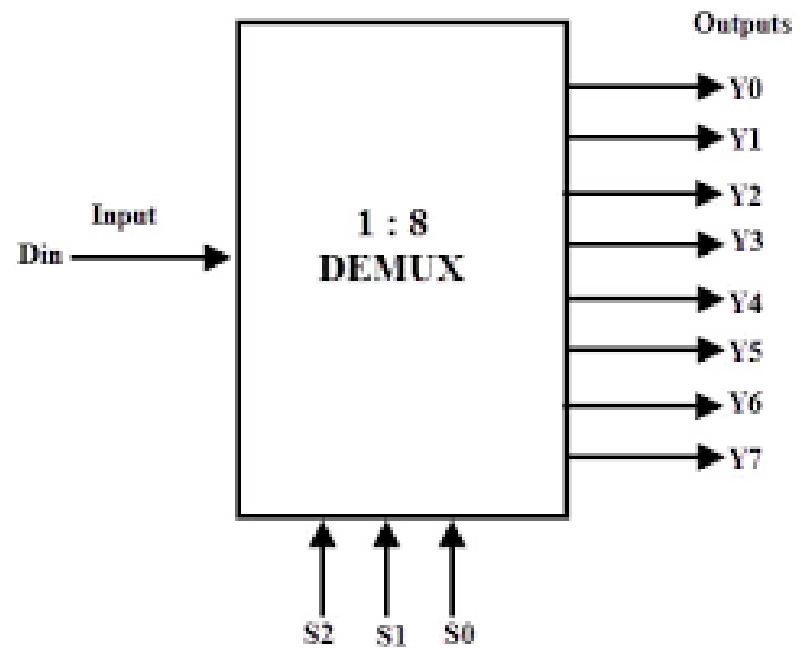
S



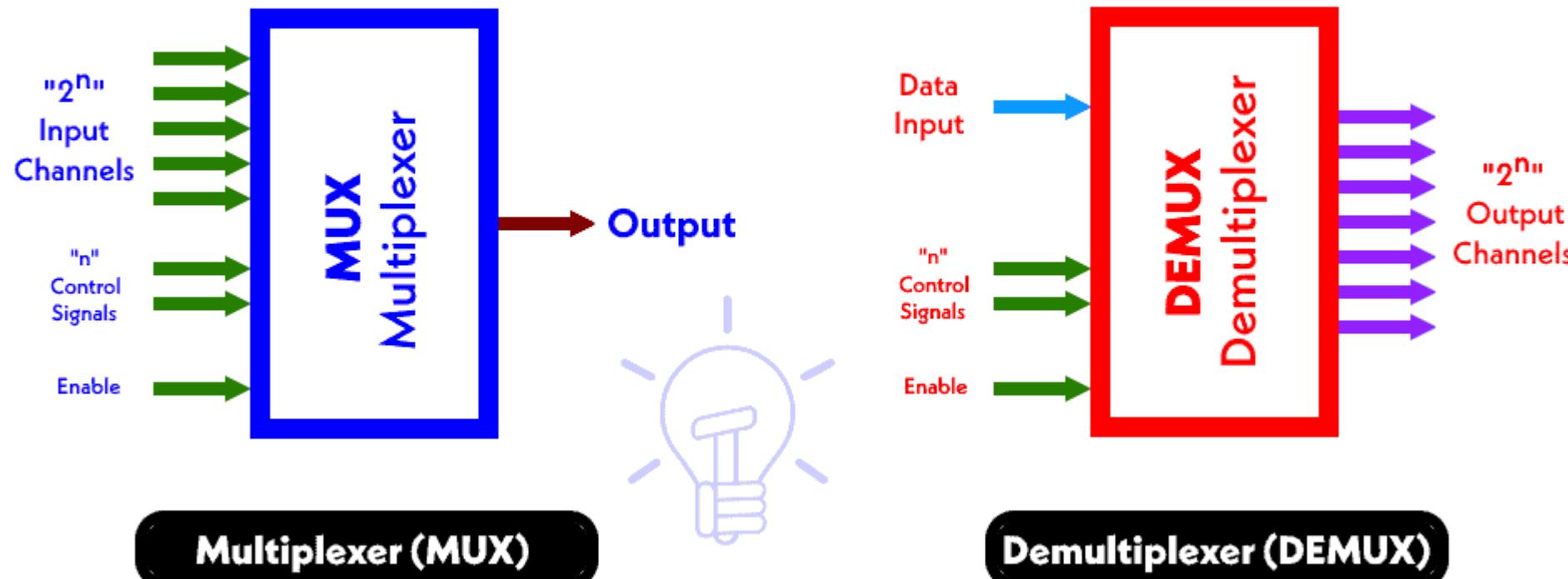
E	S	Output Y
1	X	all 0's
0	0	select A
0	1	select B

Function table

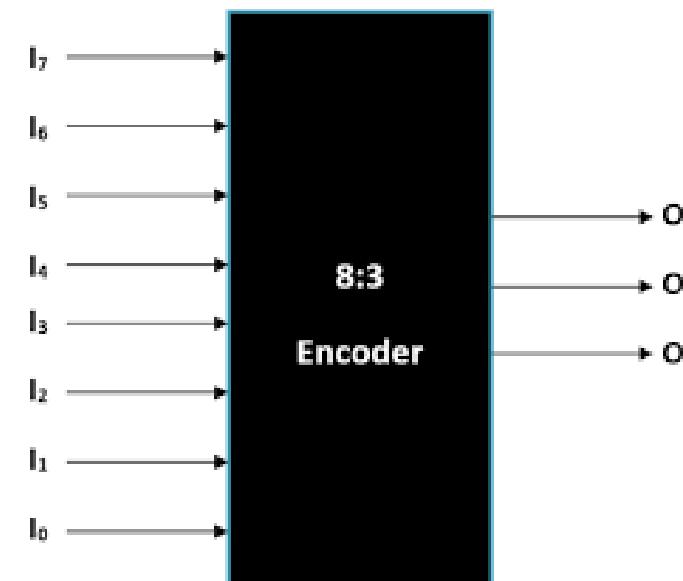
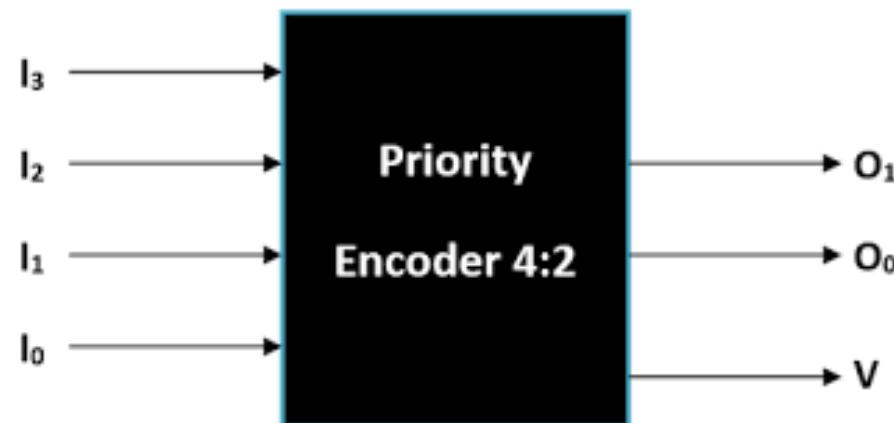
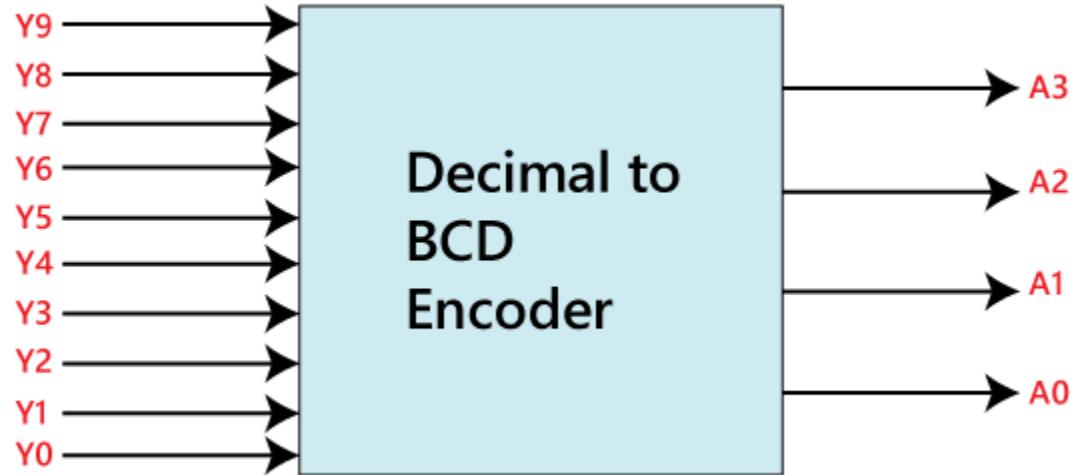
Demux



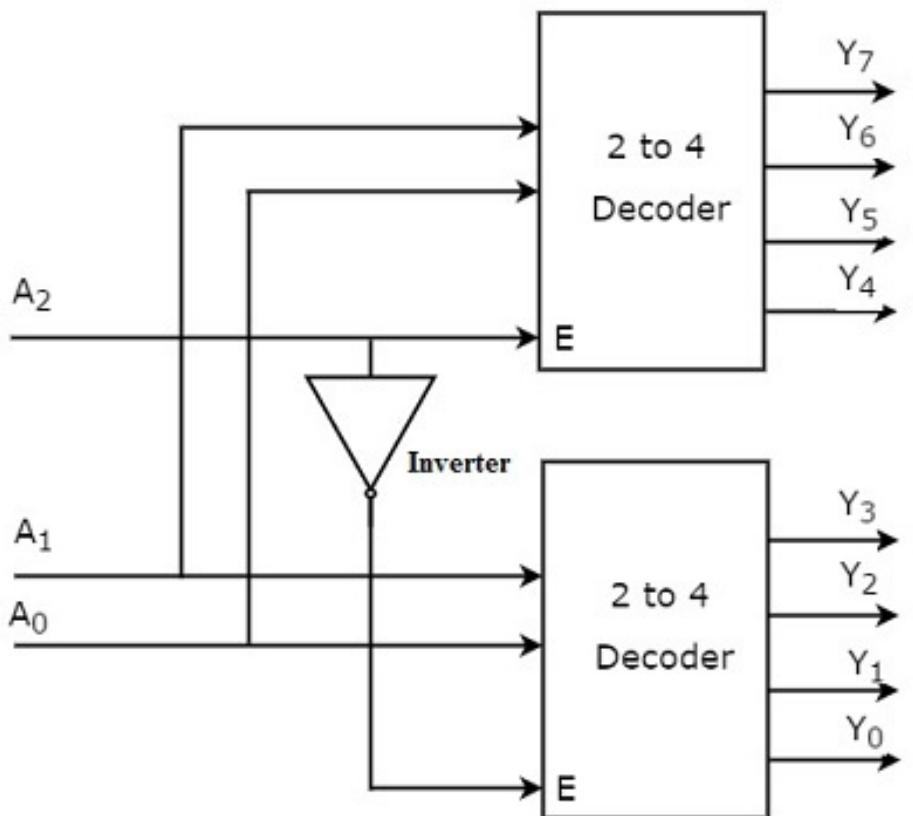
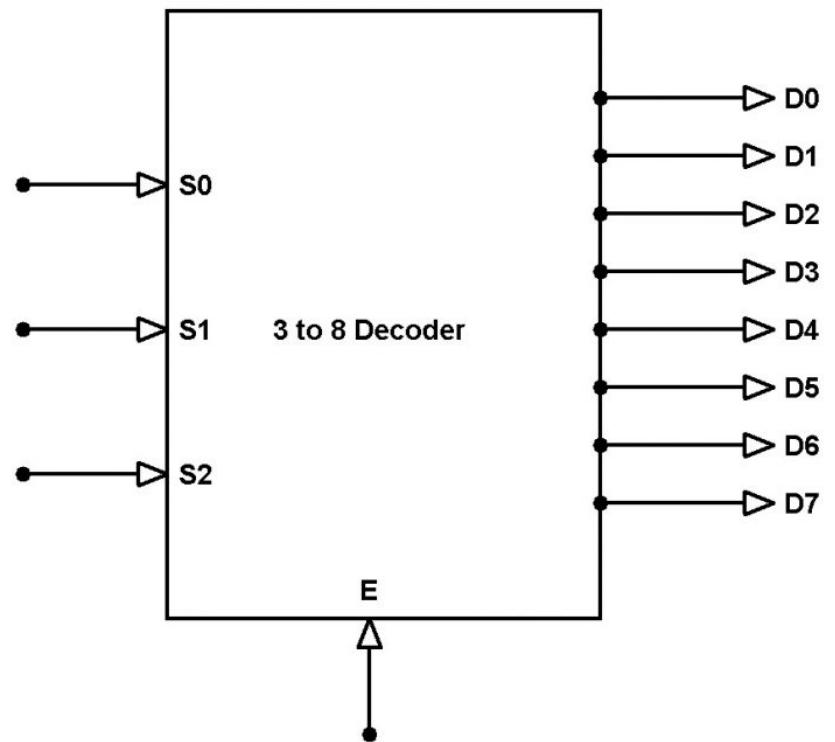
Difference Between MUX and DEMUX



Encoder

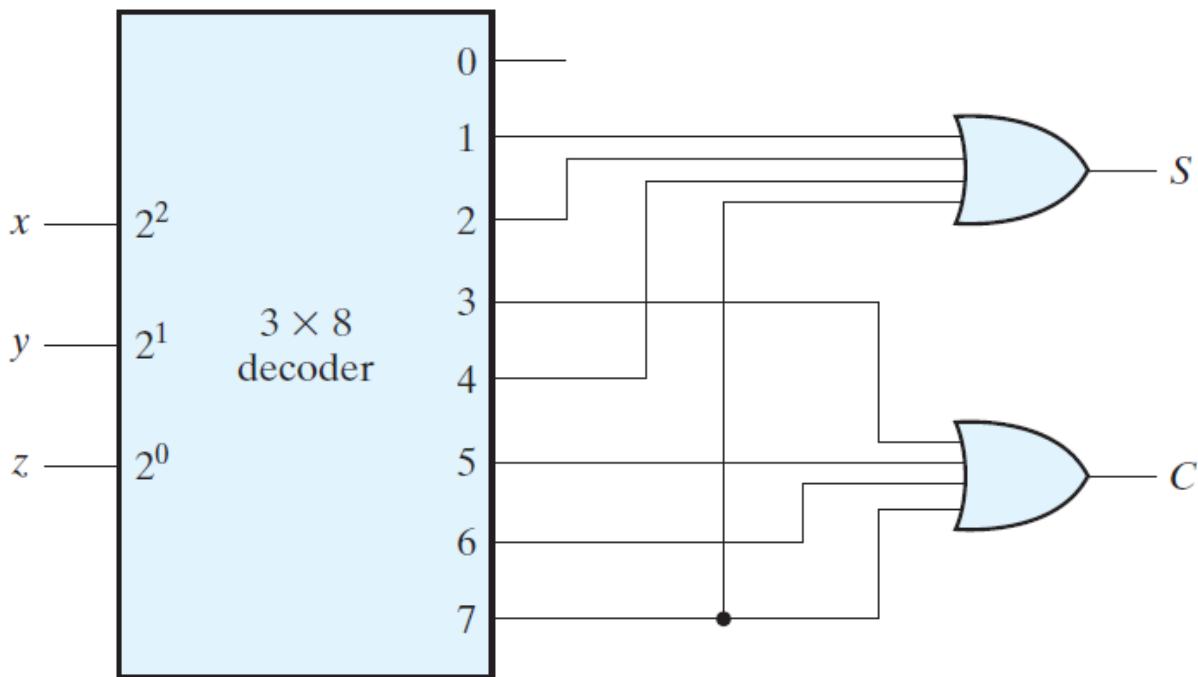


Decoder



Decoder vs MUX

To implement any function using decoder, add required gates at output



To implement any function using MUX, add required gates at input

