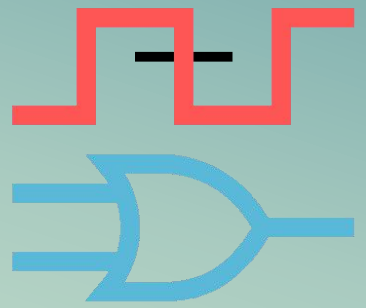
Digital Electronics

Class X
lab 20



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Enecoder

combinational circuit that performs the reverse operation of Decoder

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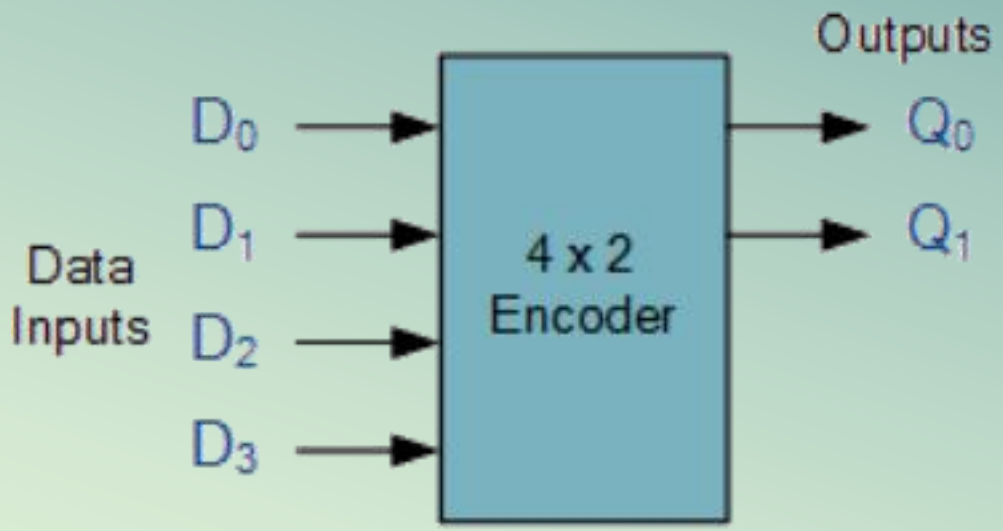
Inputs and Outputs for Encoder



Inputs				Outputs	
D_3	D_2	D_1	D_0	Q_1	Q_0
0	0	0	1	0	0
0	0	1	0	0	1
0	1	0	0	1	0
1	0	0	0	1	1
0	0	0	0	x	x

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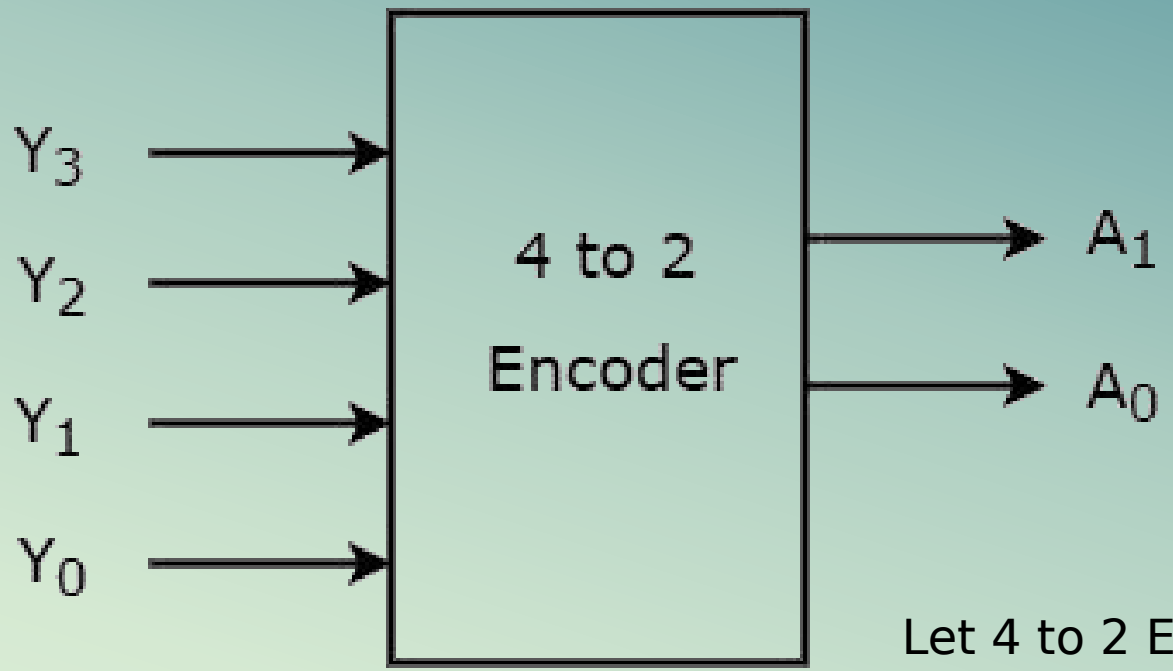
4 to 2 Encoder



Let 4 to 2 Encoder has four inputs Y3, Y2, Y1 & Y0 and two outputs A1 & A0. The block diagram of 4 to 2 Encoder is shown in the following figure

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Truth table of 4 to 2 Encoder

Inputs				Outputs	
Y_3	Y_2	Y_1	Y_0	A_1	A_0
0	0	0	1	0	0
0	0	1	0	0	1
0	1	0	0	1	0
1	0	0	0	1	1

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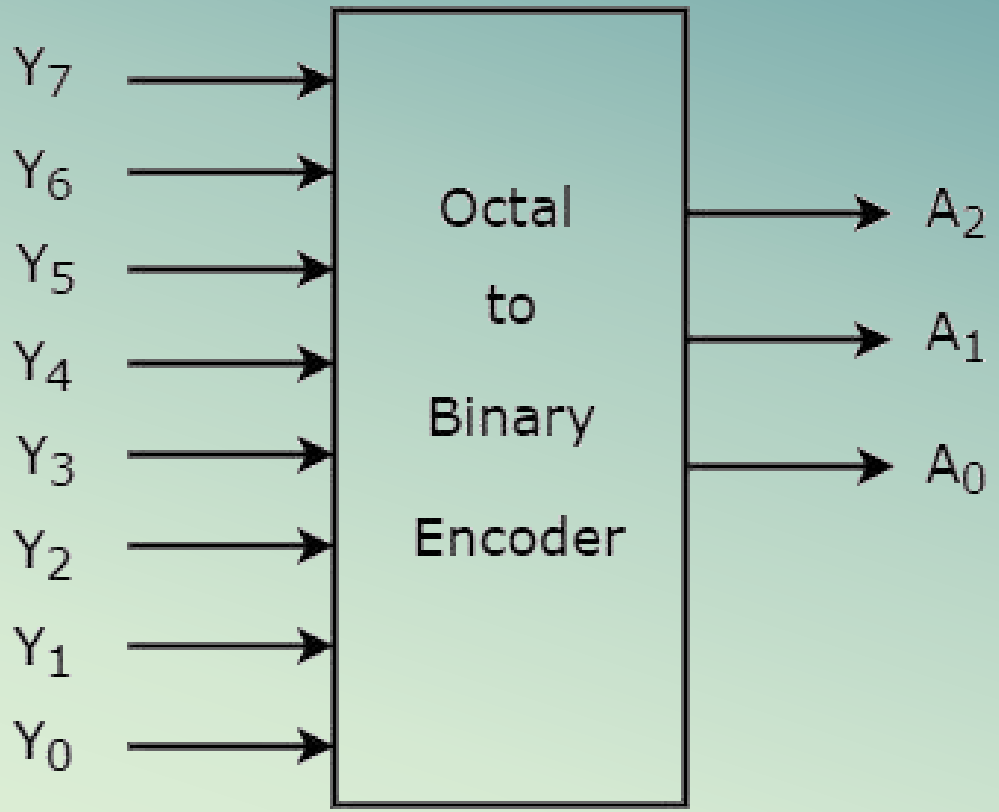
Octal to Binary Encoder



8 inputs and
3 outputs

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Thank You

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