## ASSIGNMENT-11

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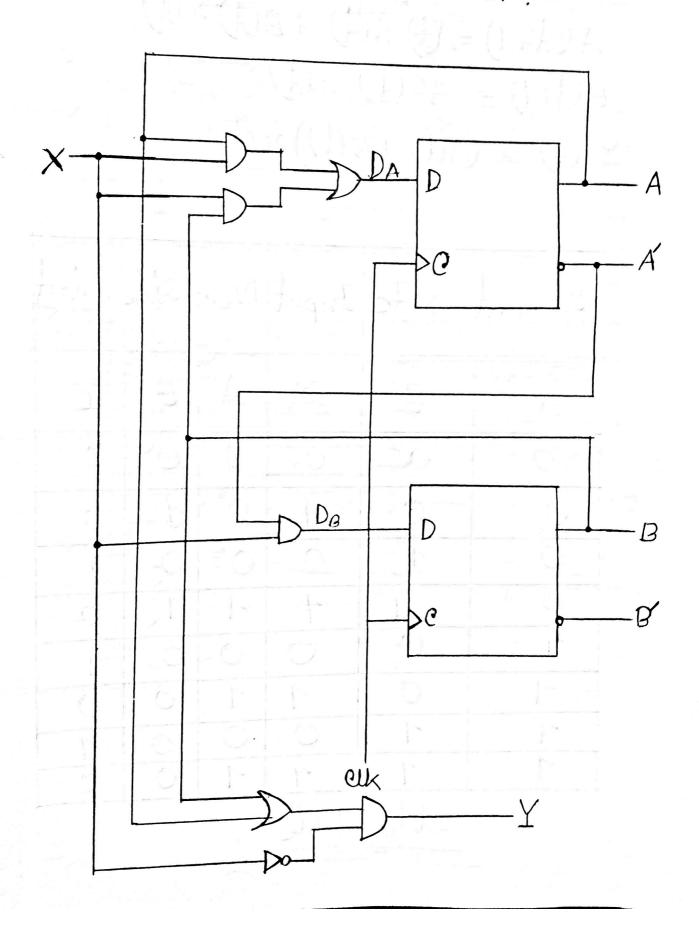
Causse : CSE231

Section: 10

Submitted to : Dr. Mohammad Monircijjaman Khan.

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Example of sequential circuit:

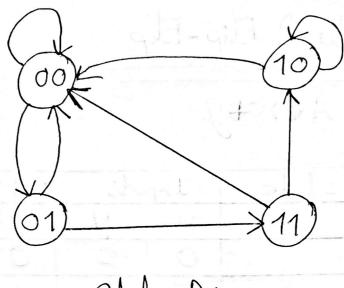


State Equations:

A(+1) = A(+) n(+) + B(+) n(+) B(+1) = A'(+) n(+) Y(+) = (A(+) + B(+)) n(+)'

The second secon			1		
Prosent	Shle	Input	Nev	of State	e alpa
A	B	- X	A	B	Y
0	0	0	0	0	0
		1		1	0
0	1	0	0	0	1
0	21	1	1	1	0
1			$\circ$	0	1
1	0	1	1	0	0
1	1	0	0	0	1
1	1	1	1	0	0

State Table



State Diagram

Flip-Flop Input Equations

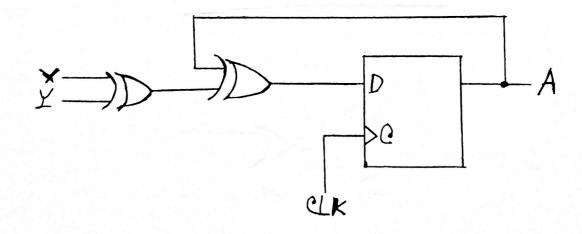
 $D_A = A \times + B \times$ 

DB = A1X

Y = (A+B) X'

Analysis with D Flip-Flop

DA = A + x +y



## Analysis with D Flip-Flop $A(\pm 11) = A \oplus n \oplus y$

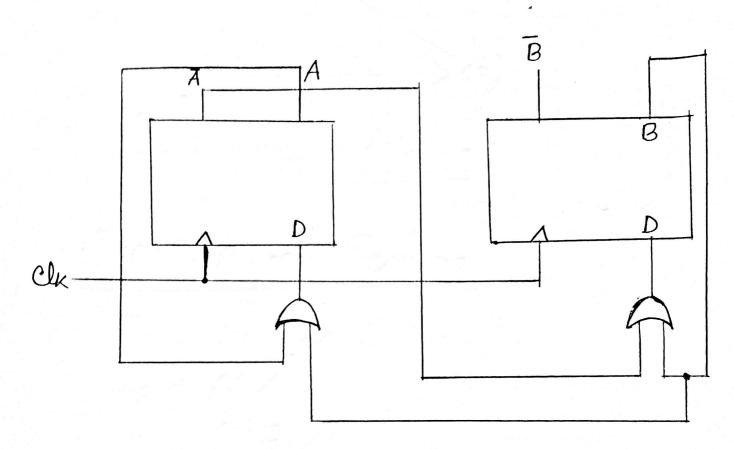
	and the same of th		
Present State	Inputs		New State
A	n	y	A
	0	0	0
0	0	1	1
0	1	B	1
0	1	1	0
1		O	1
1	0	1	0
1	1	0	0
1	1	1	1
	1 /		

01, 10 01, 10 01, 10

State diagram

2

Example:



State Equation:

A(+1) = B(+1) + A(+1) $B(f+1) = B(f+1) + \overline{A}(f+1)$ Transition Lable:

Present		Neut	
A	B	A	B
0	O	0	1
0	1	1	1
1	0	1	0
1	1	1	1

00/0	01
(00)	01/01/11
(10)	974
	11/10
11/10	