15 04 2015

Programmable Logie Averay (PLA)

When the number of don't care conditions is excessive, it economical to use PLA. In PLA, the decoder is suplaced by a group of 'AND' GIATES each of which can be programmed to generate a product term of the input variables.

Truth Table

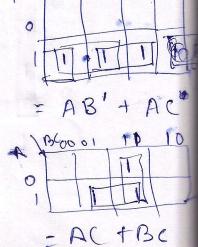
A	B	C	Fi	FR	Rom Truth Floble			
0	0	0	0 0	0	1 28			
\circ	0	1 —	- 0	0	64	οA	IA	g A
0		0	0	00	U	0	0	0
()		1	0	0	0		0	U
, 0				0	-0-	-01		0
	0	0 0		0	0			()
	0		10		0	0	0	
	1	0	0	0	0		0	
	1		0	9		0	(j
		10	10 1					1

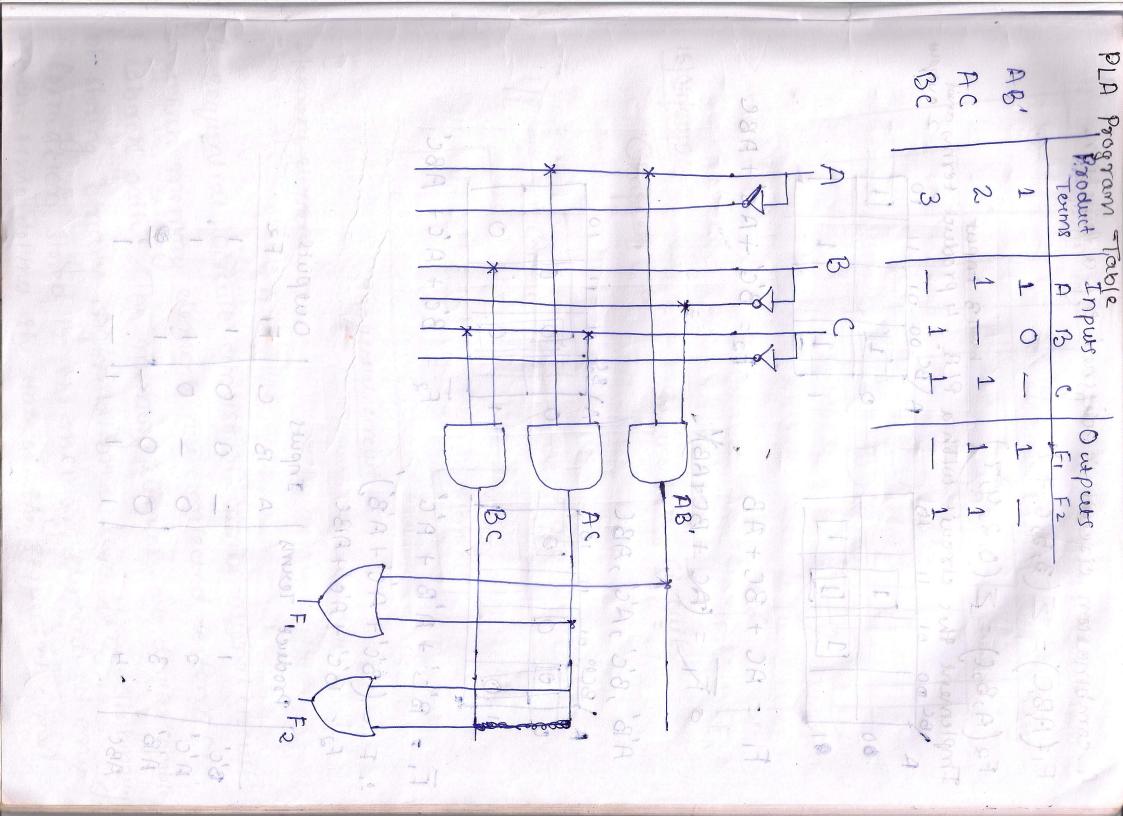
FI = AB'C' + AB'C + ABC

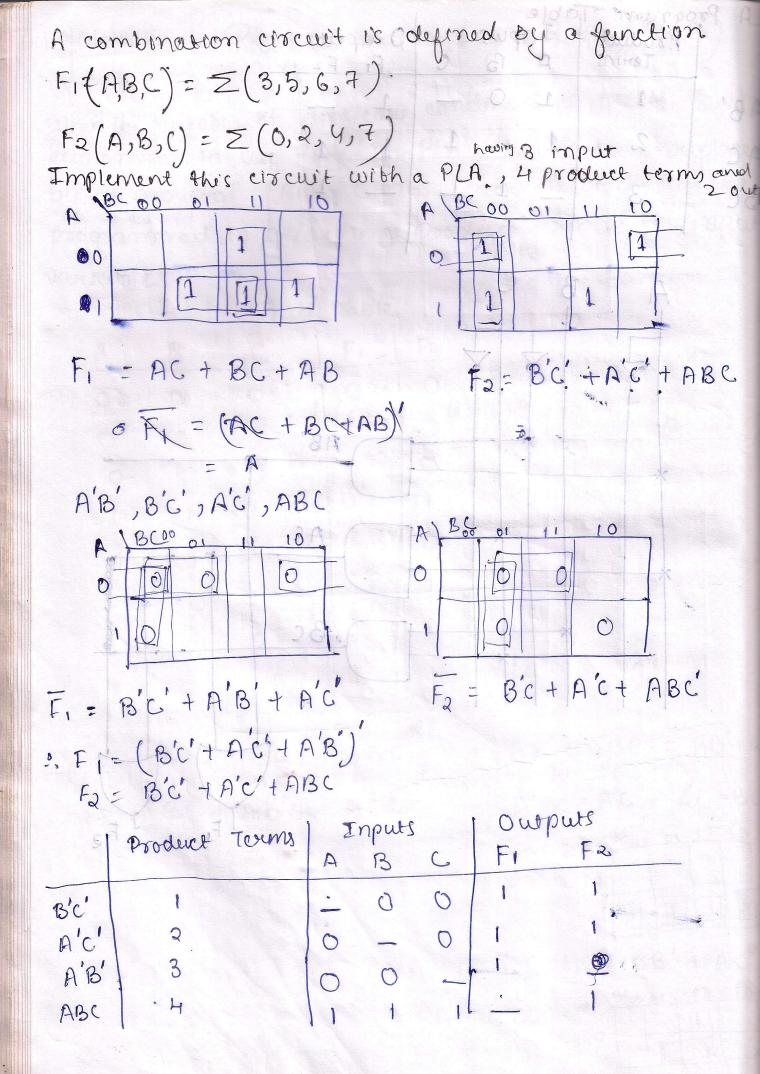
FZ = A'BC + AB'C + ABC

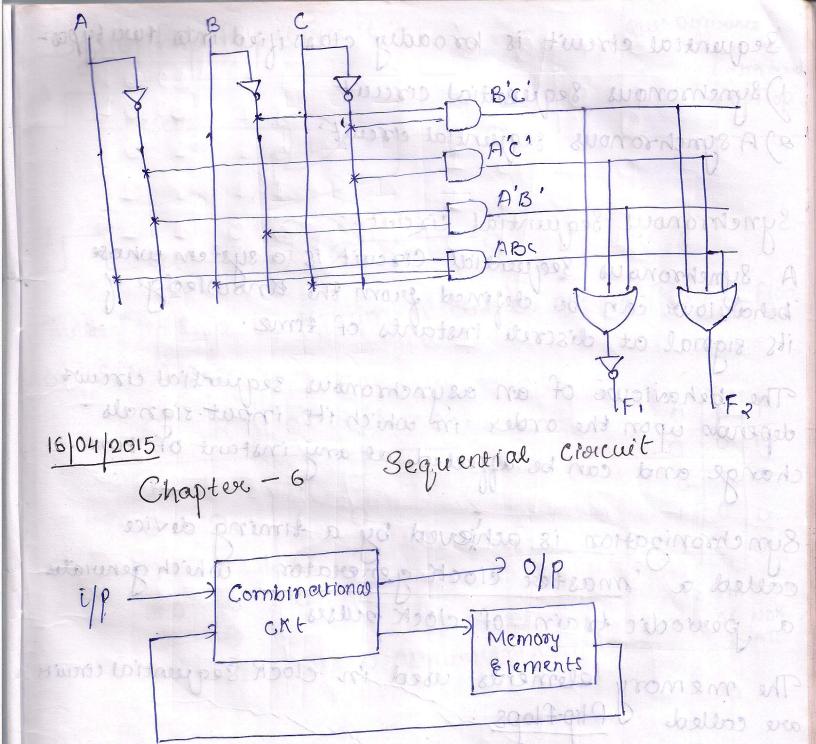
AB'+ABC = AB'+A

A'BC+AC=AC+BC









Droparisons to sequential circuit

Memory elements

A sequential circuit consist of a combinational circuit to which memory elements are connected to form as feedback path. The memory elements are devices capable of storing binary information within them. The binary information within them. The binary information within them the memory elements at any information stored in the memory elements at any information stored in the memory elements at any information time defines the state of the sequential circuit.