

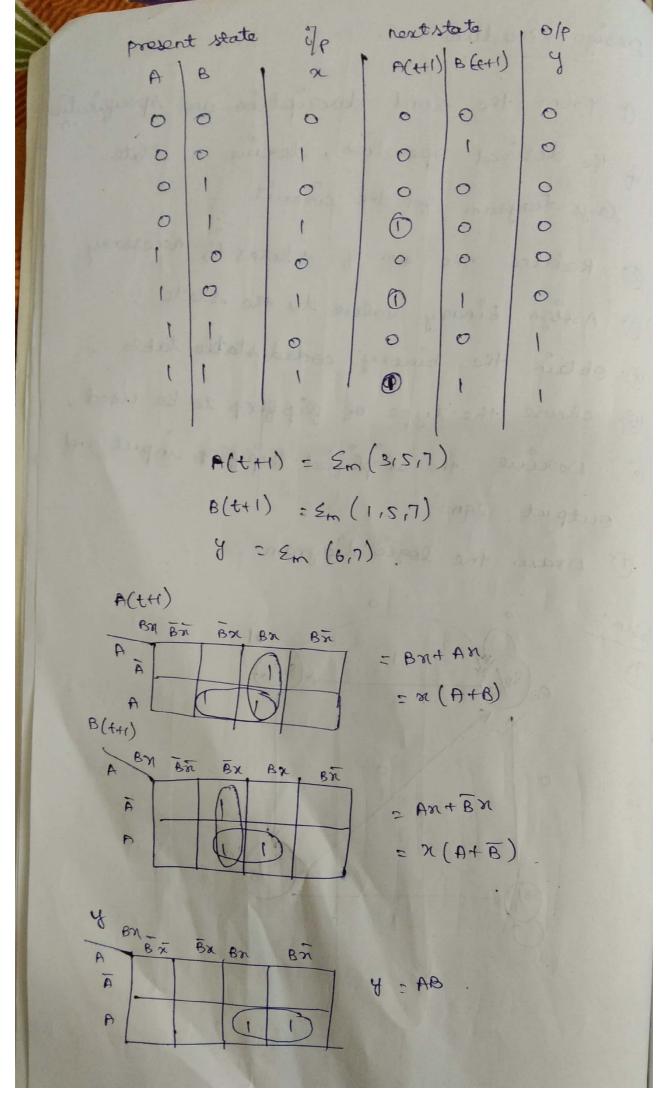
present state !	None None	n=1	7-0		
a	a	6	0	0	
6	C	1 9	0	0	
C	a	1 4	0		
d	6	5	0	1	
simble f	a	5	0		
7	8	5	0	1	
.0	a	+	0		
then we have to see similar team than we have to seplace it.  Here 9 and 2 are similar.					
. Replace					
Present state		n=1 stale	n=0	× = 1	
a	a	Ь	0	0	
ь	C	d	0	0	
C. C.	a	d	0	0	
, d	e,	5	0		
e	a	4	0		
S. S	2	f	0		
*	9 19	3	0		
dand	0 21		<b>a</b>	9	
4 304	+ aac	2 seni	las ref	lace by d,	

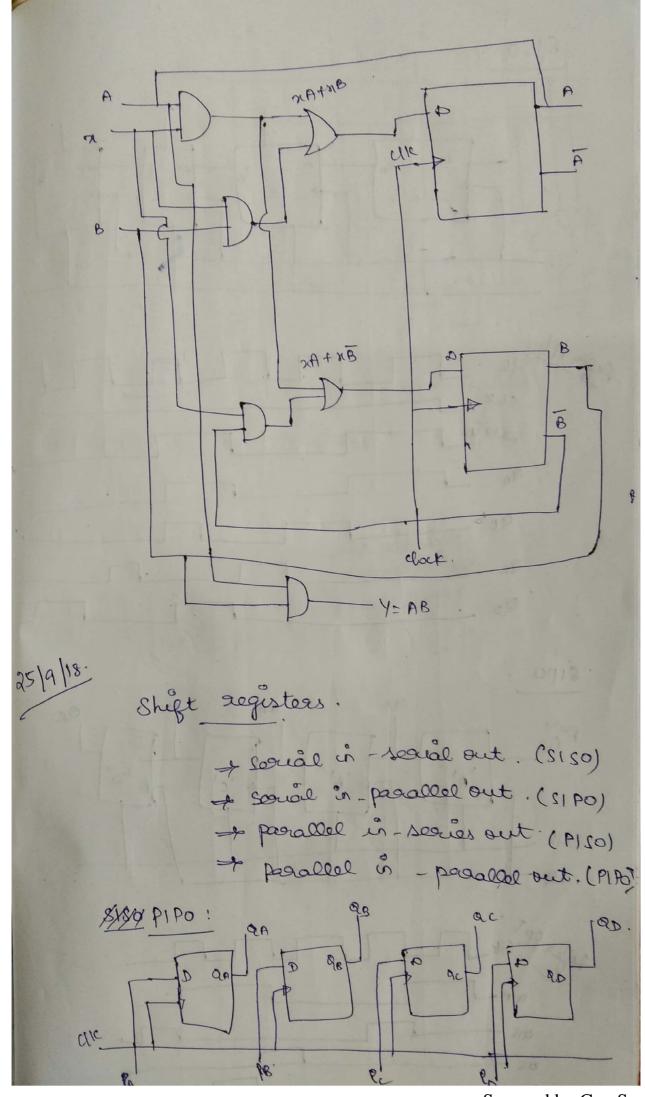
Scanned by CamScanner

prosent state	Next State	2=0   X = 1		
a b c d	a d d d d d			
Reduced state diagram:				
Reduced state present state  o o o  o o  o o  o o  o o  o o  o o		iraay assignment:		

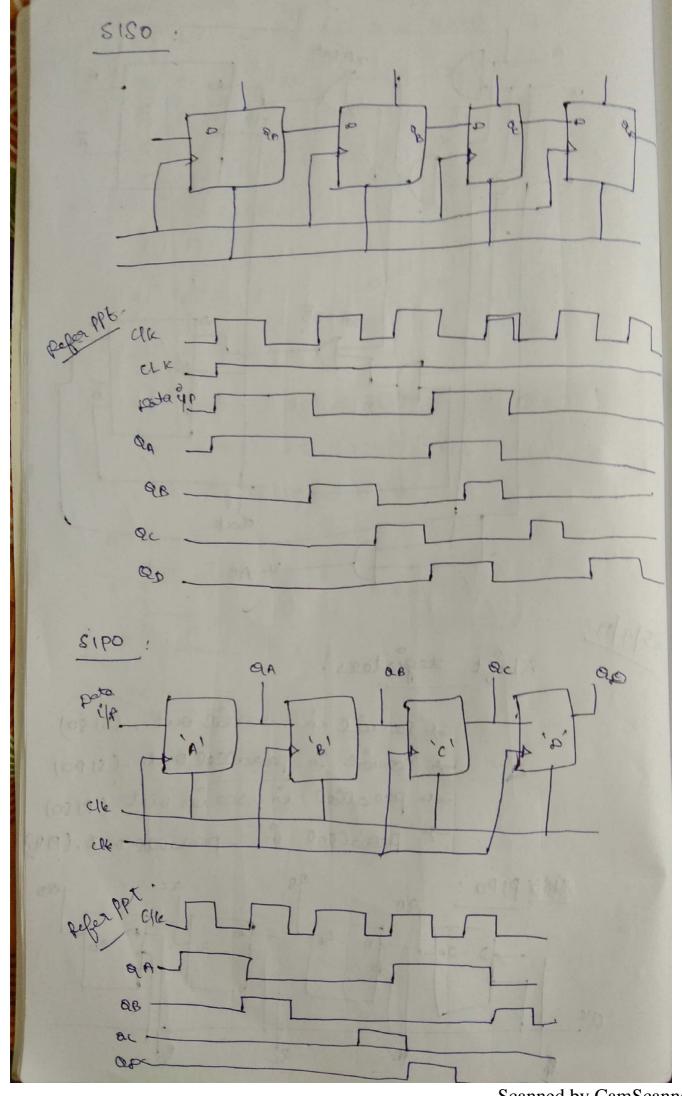
Scanned by CamScanner

pesign procedure: O from the word description and specification of the desired operation, donne a state days diagram for the coccuit @ Reduce the no of states if necessary 3) Assign binary value to the state. 1 Obtain the binary coded stable table 6 choose the type of plipplop to be used. 6 Desire the simplified thip glap input and output egn. 1 Draw the logic diagram. Pobla. 0 0

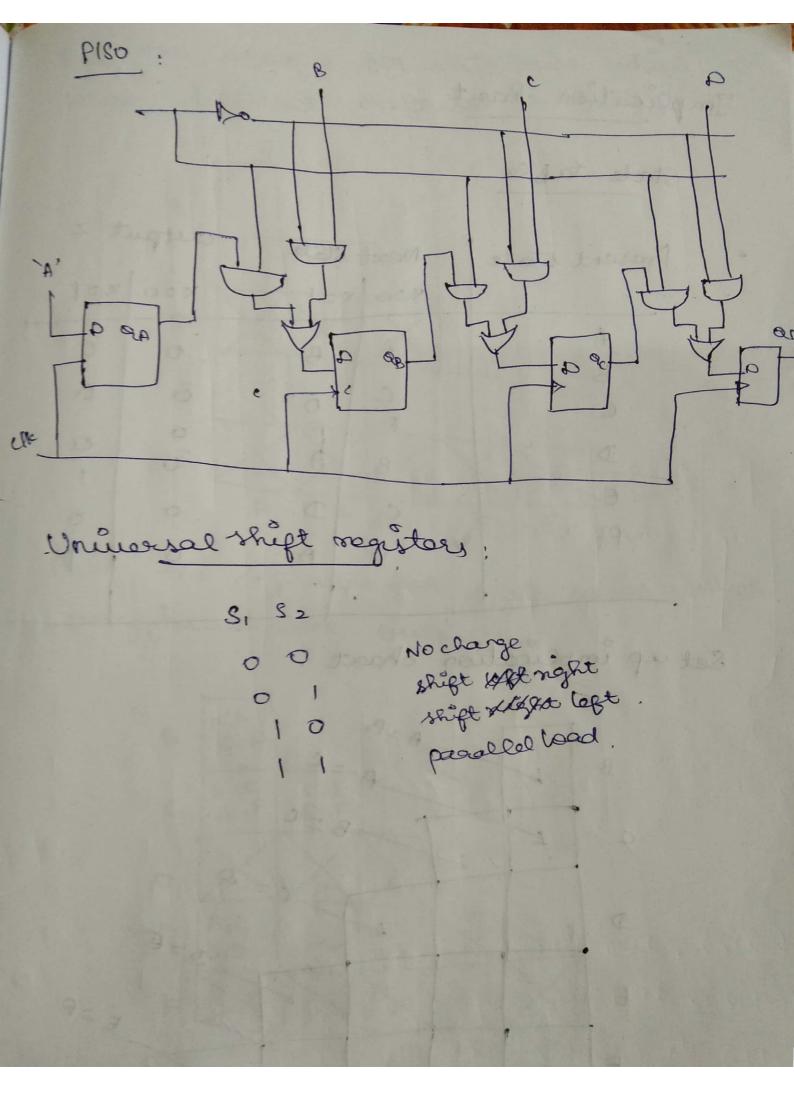


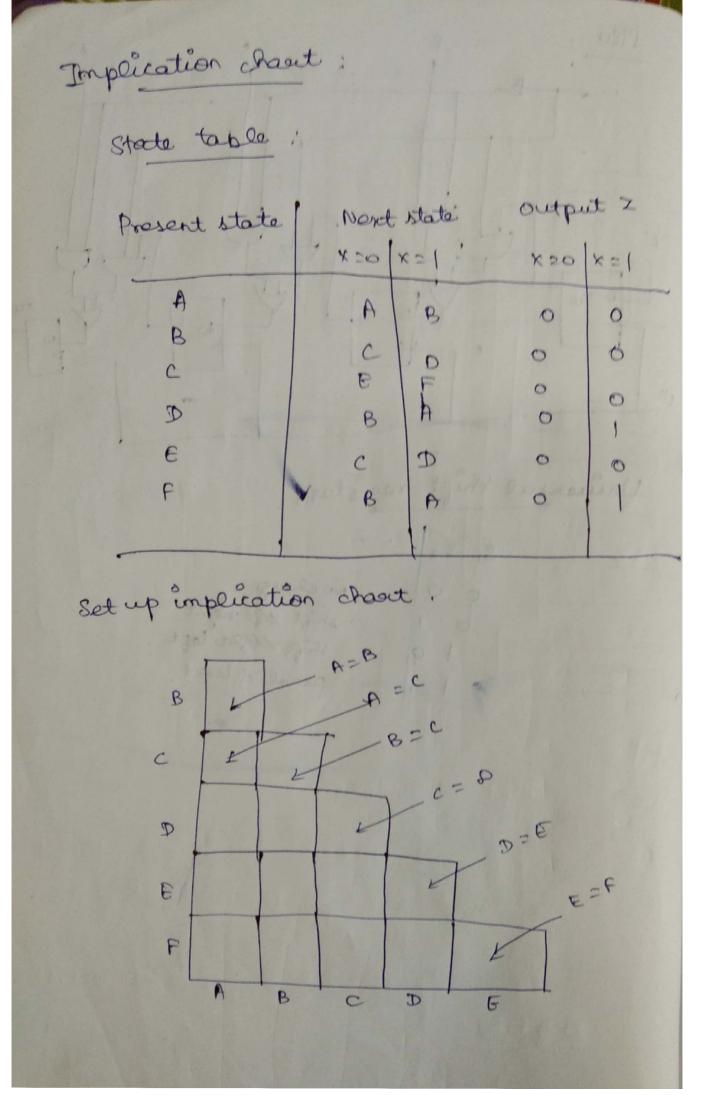


Scanned by CamScanner

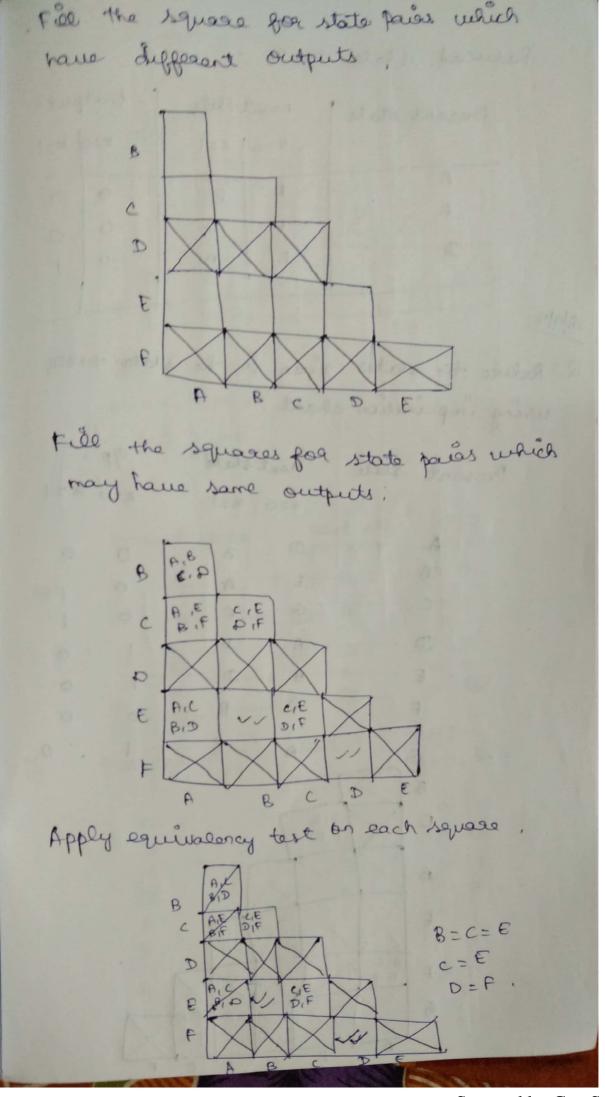


Scanned by CamScanner





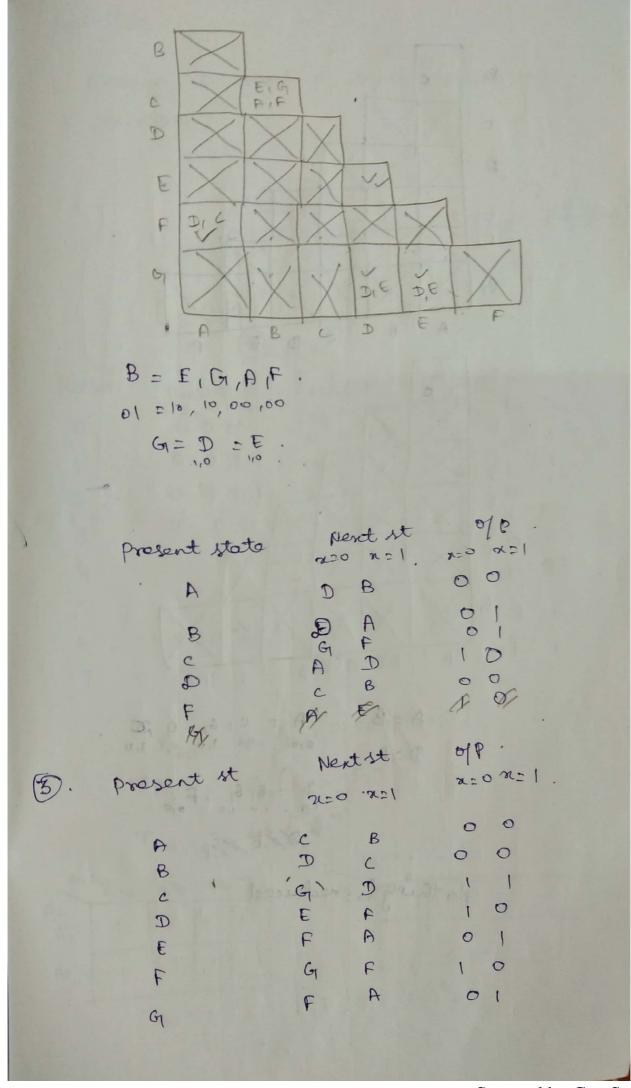
Scanned by CamScanner

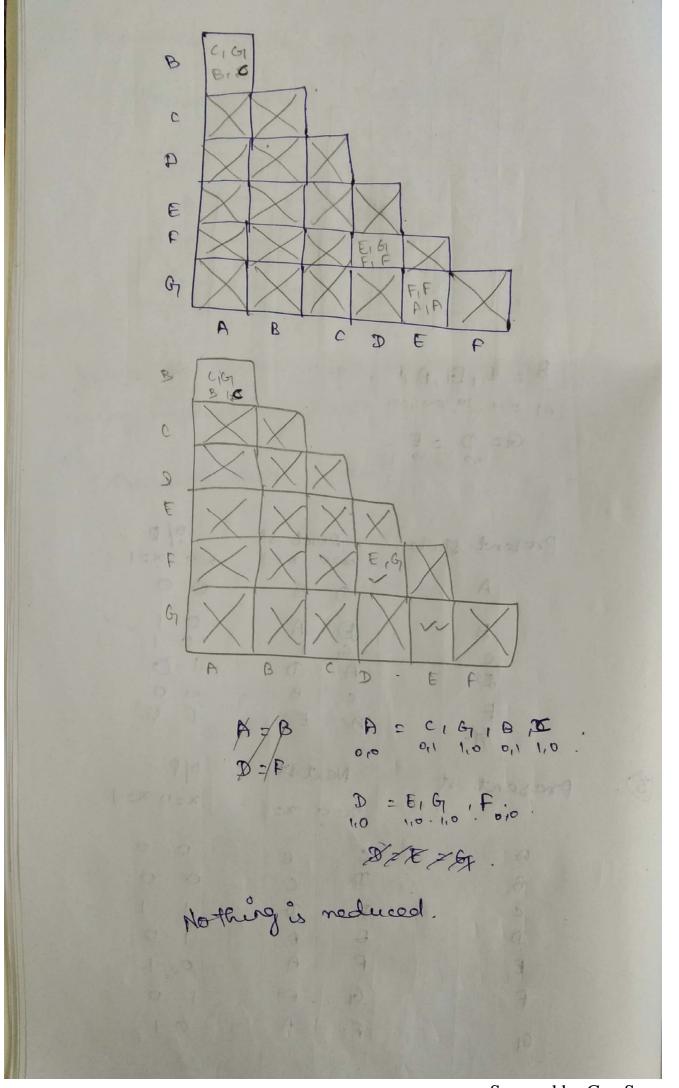


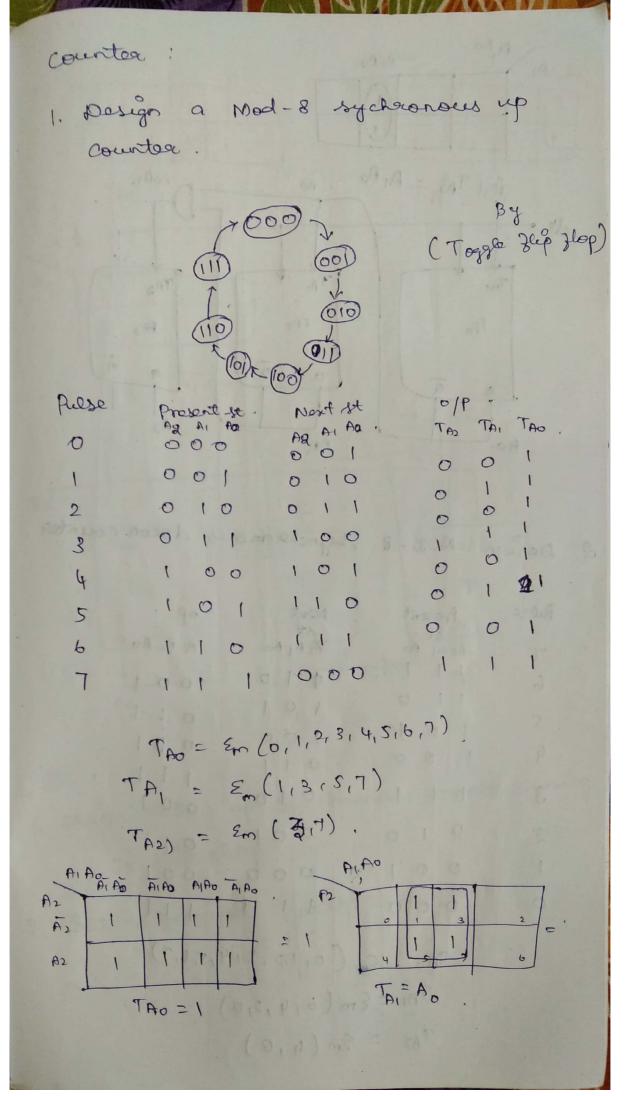
Scanned by CamScanner

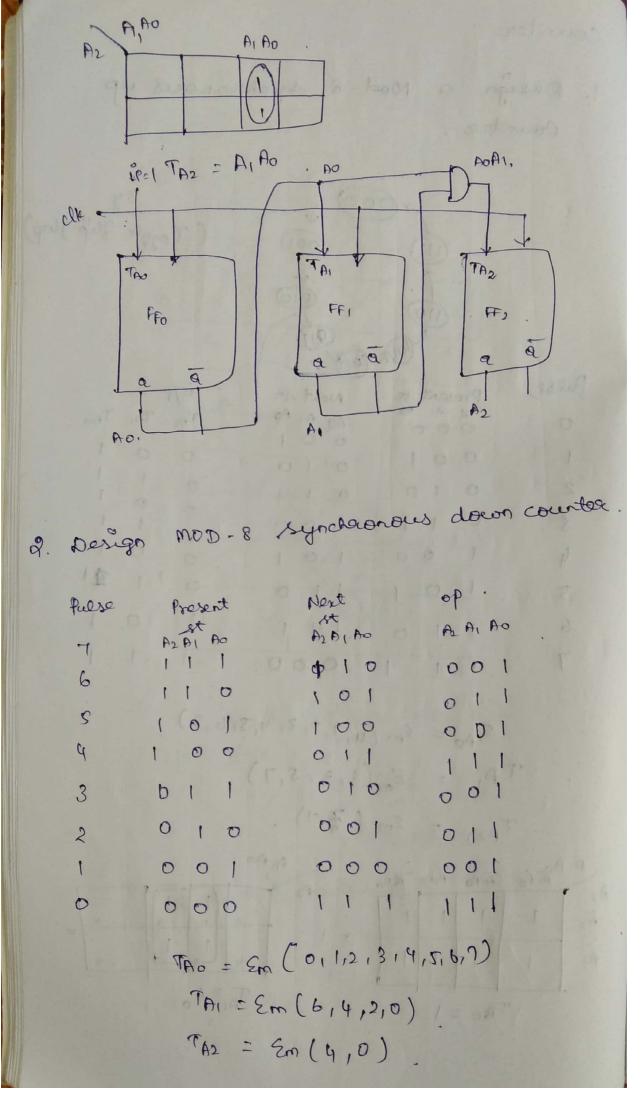
Reduced state to	able!
Present state	Nontstate ! Output?
	x 20   x 21   x 20   X 21
A	A B O O
В	B B 0 0
D.	B A 0 1
28/9/18	
2. Roduce the states que	uen on the state table
using implication che	est.
	Nant state 9p.
Present state	200 X21 200 X21.
A	D _ B 0 0
8	D - B - 0 0 E - A - 0 1
C	G F 0 1
D -	A - D - 1 0
€	A _ D _ 1 0
F	C — B — 0 0
1	A E I O
GI	ALAN APP
E EIG	1. The manufacture of the second
a	
E	DD.
F BIR	
G	TAR AAA
A B	DE DE
В	

Scanned by CamScanner

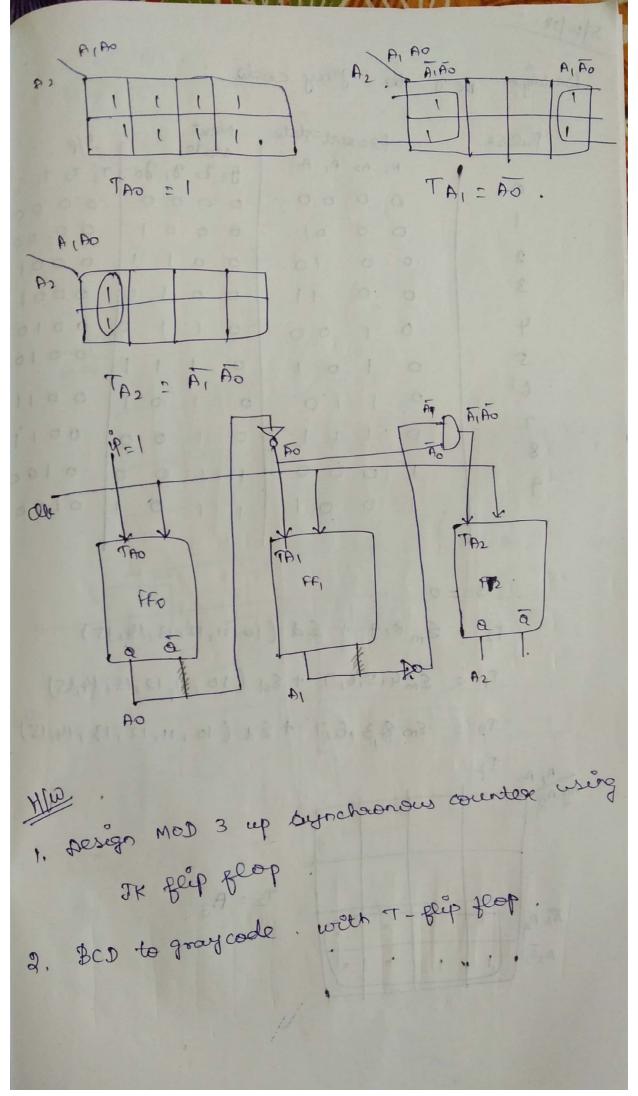






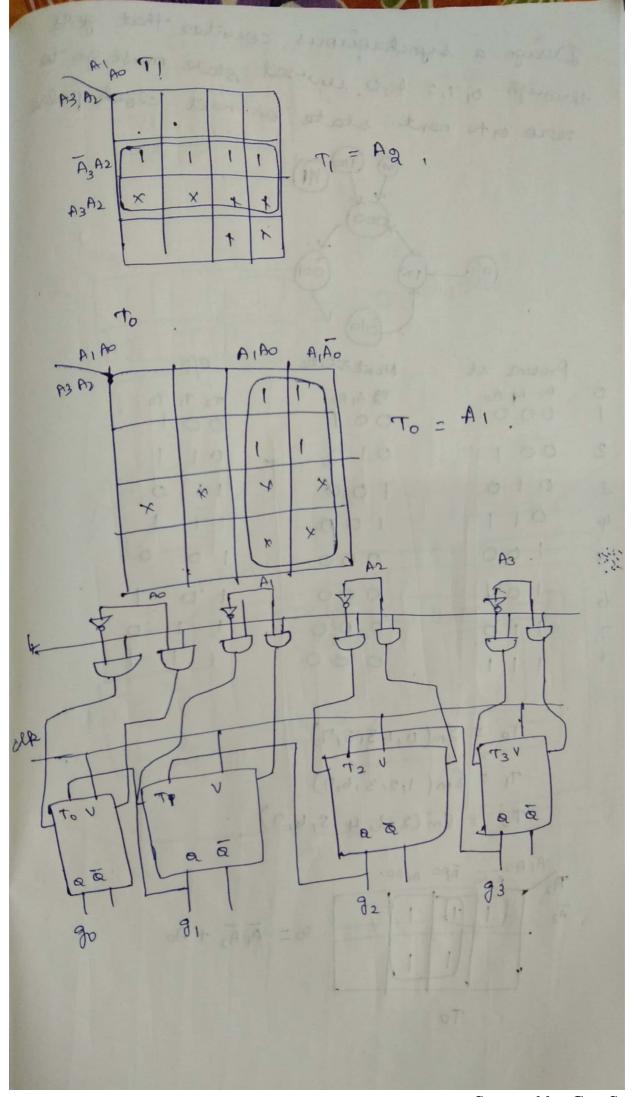


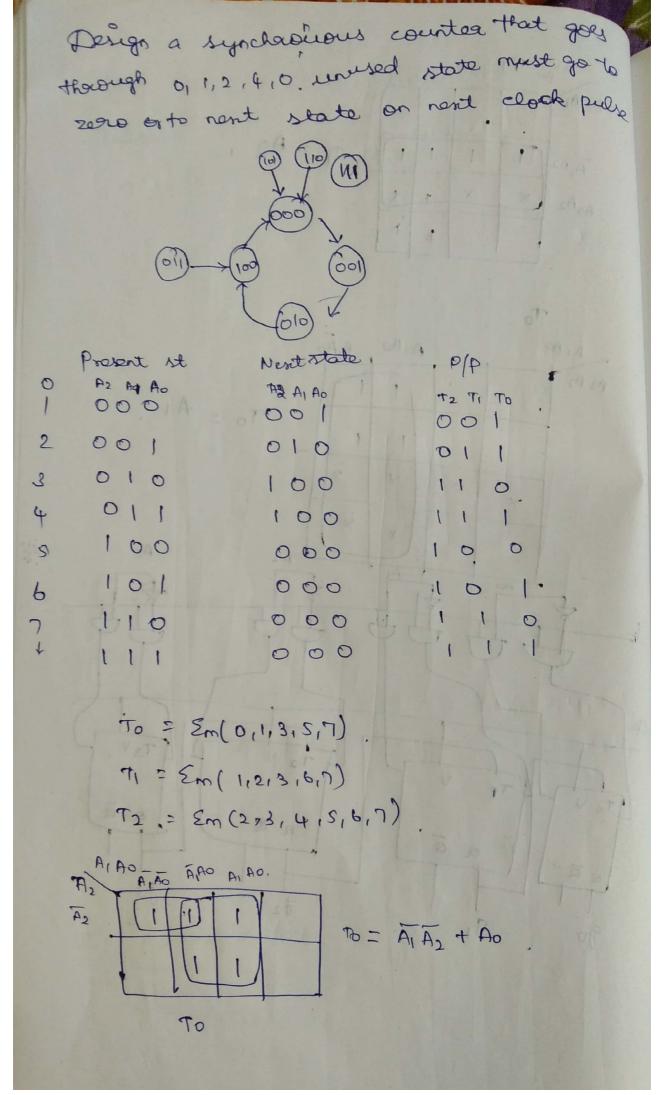
Scanned by CamScanner

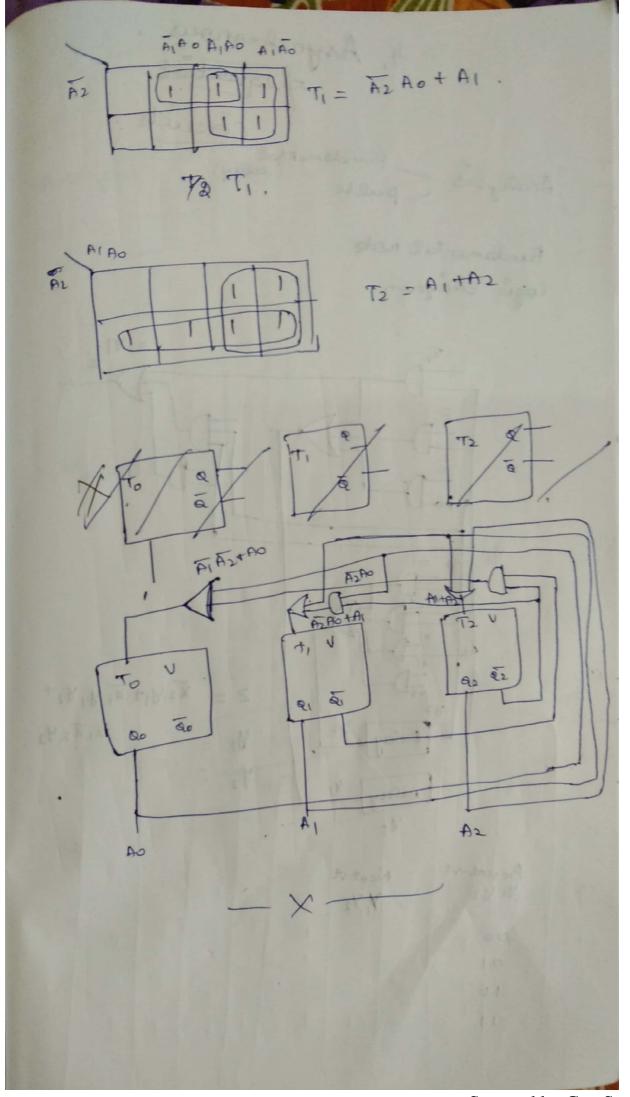


Scanned by CamScanner

2/00/18.					
	2000 - 2000				
Design Bc	D' to gray code:				
Pulse	Propertistate Next 0/P.  As As A, Ao A, 8, 9, 90 To To To To				
0	A3 A2 A1 A0 A3 81 9, 90 T3 T2 T1.				
	00010001000				
2	000100011000				
3	0 0 11 0 0 1 0 0001				
4	0100010010				
5	0 1 0 1 0 1 1 1 0 0 1				
6	0110001001				
7	0111000000				
8	1000 1100 0 010				
9	1001110100				
T <sub>s</sub>					
. 3 =	5m8,9+£d(10,11,12,13,14,15).				
T2, \$	T2, 2 2m 8/9 1 2a (1011)				
T <sub>1</sub> 2	5m415,6,7 + Ed (10,11,12,13,14,15)				
To =	Em 8,3,6,7 + Ed (10,11,12,13,14,15)				
A, A0 T2	18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
A3 Aa	i desido men a ne contrata				
	72 2 A3				
A3 A2 1X	x x x				
A <sub>3</sub> A <sub>2</sub>	· × ×				







Scanned by CamScanner