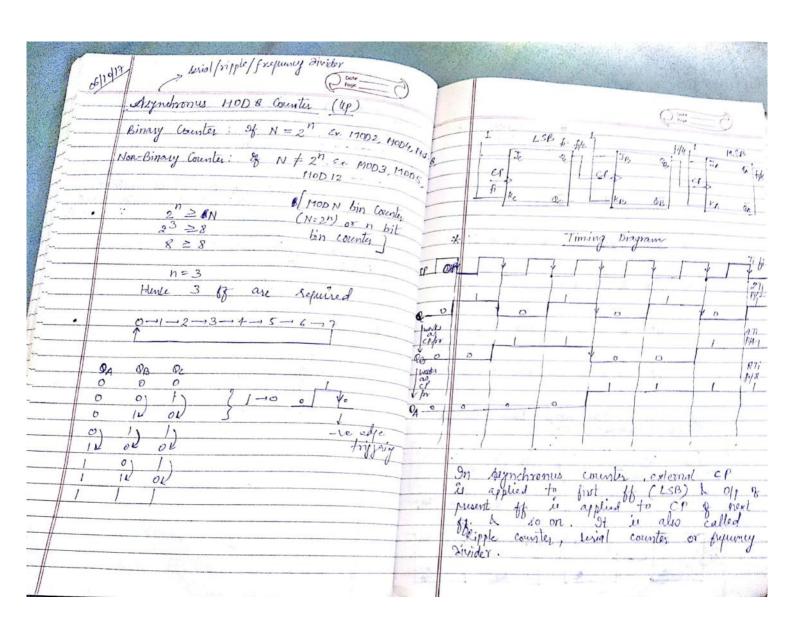
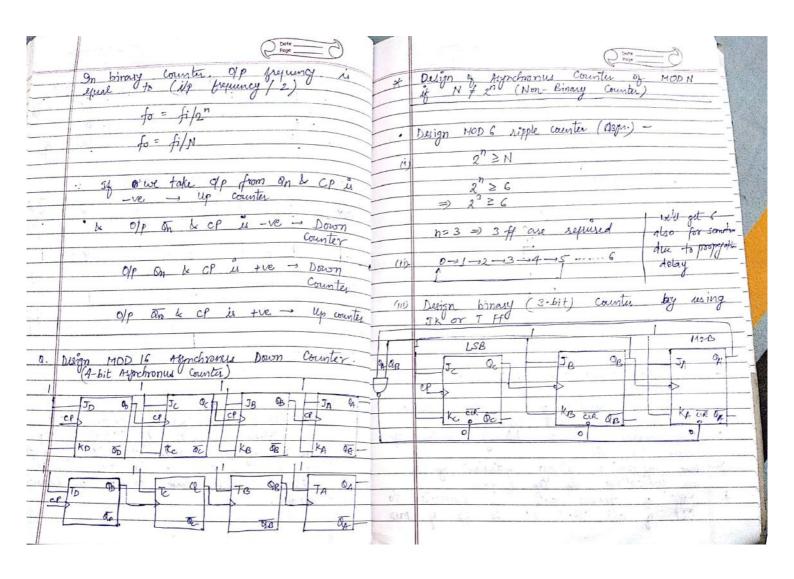
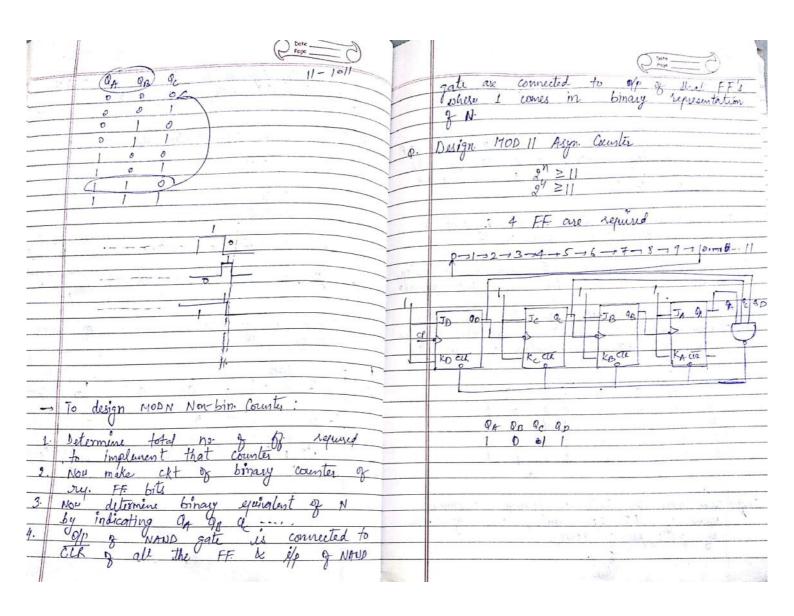
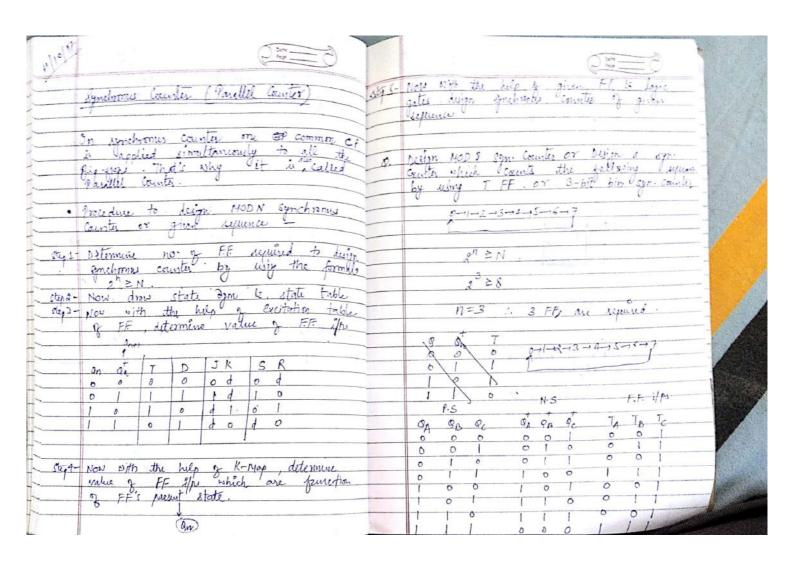
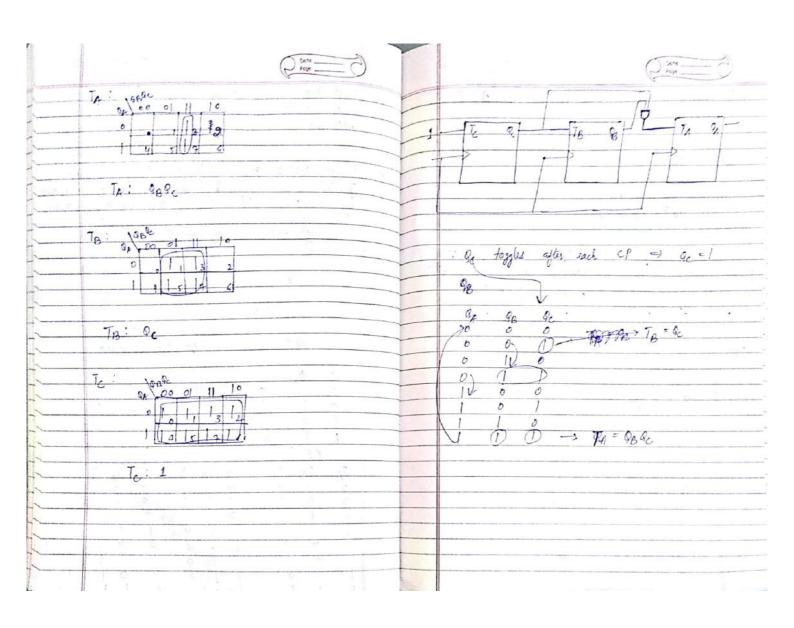
Date	O Sales
Dote Roge	Q Page D
from 0 to N-1 for MODN up country	Modulus & a Counter
Ex In MOD + up Counter, it counts as follows	Total no. of wed states one is called
Q-0-2-12m	Modulio &
	2" > N
In Dam Counter, it counts in descending	where n is no of flip flops repured  N is Hodylus of a country (rust)  State)
ex for MODS Down counter, it count as follows	O. Det no g flip flop set to implement
Q-3-2-0-6	MOD 8 counter
	$\frac{2^n \ge 8}{2^n \ge 2^3}$
Total no. of Kip-flops sequired to implement	$\frac{2^n \geq 2^n}{n = 3}$
to sepresent (N-1)	
	$2^{n} \ge N$
Q Determine total no & ff to implement	$n \log_2^2 \ge \log_2 n$
MOD 18 Country	n \subsection logs N
16 8 4 2 /	
(N-1)- (17) -, 1 0001	
5 p are required.	
00	
- con a contract of the contract of	
A STATE OF THE STA	
to the state of Sound to the state of	
No.	



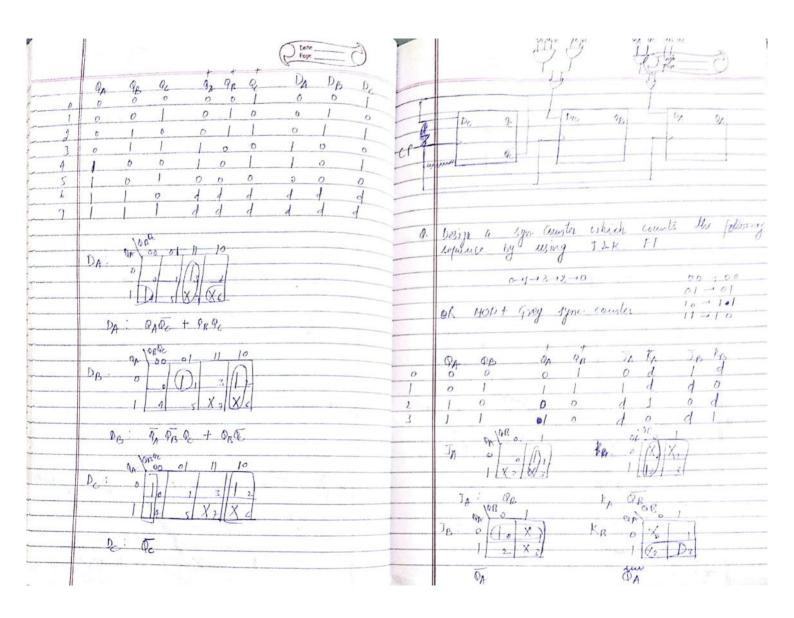


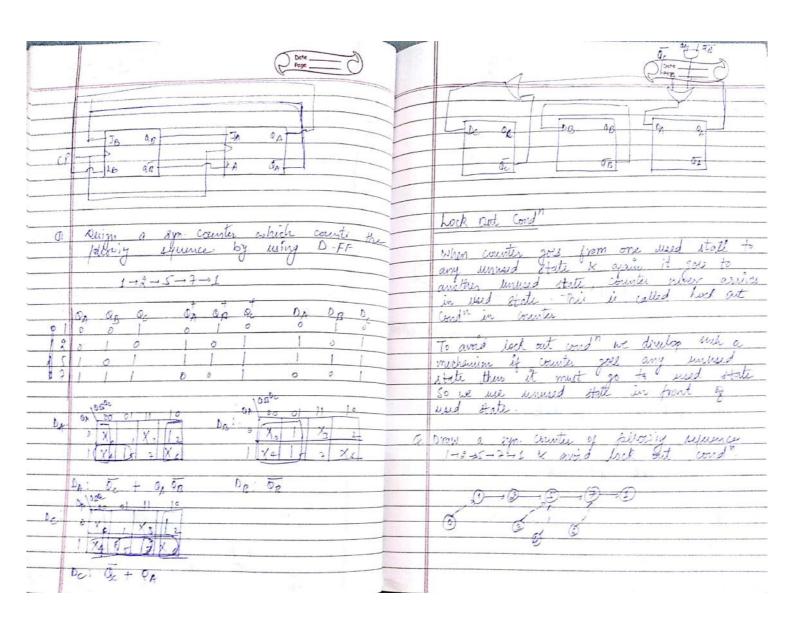


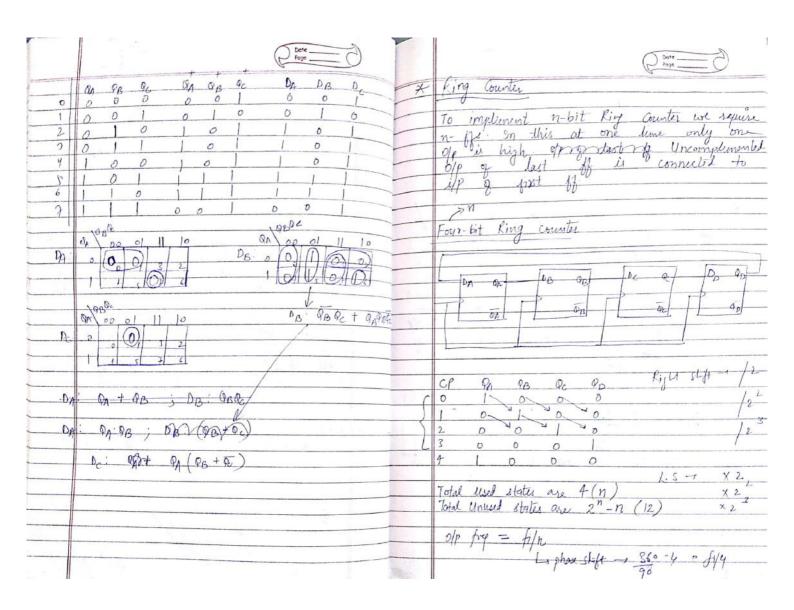




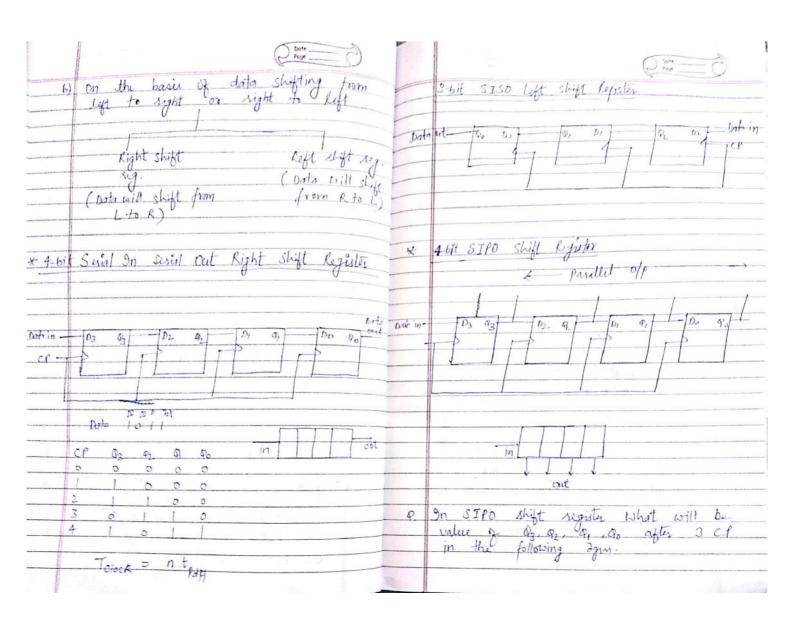
9n imilian ( )
9n synchranics Gently -  Totack = Lipter + (n-2) Eptens  f - 1  Totack
Sy both Neyr & Syn -   MOD N   =>   MOD MN   County     County     County
for non-binary County -  Of free: = iff frey  no of used states
Design HOD 6 Synchronus counter by using D+1  20-1-2-3-4-5  23 > 6  1:3 FF are required

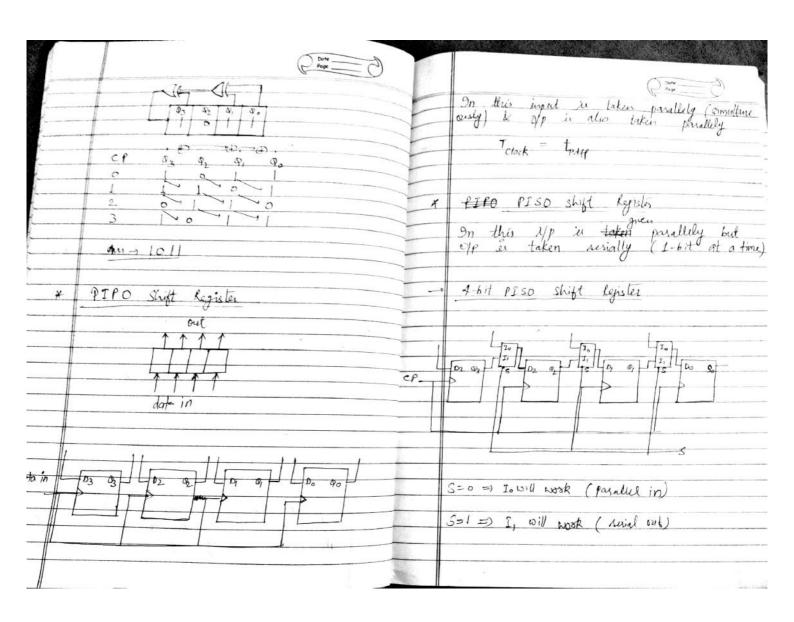






	C Date Fope		O sore
0	Det total no of unused state in		CP 9A 9B 9C 9D 9D
	$A - 2^8 - 8 = 349$		1 100000
The second	Jp M = 1/8		3 1 1 0 1
			5 0 1 1 1 0
*	Johnson County Twisted Ring County		6 0 0 1 1 0
	& Creeping Counter / Switch Tale Counter		8 0 0 9 9
	Mobile Counter		
	To implement n-bit Tohnoon counter, we	25)	Register
	of last of is connected to if of	414	Register is group of FF which is used to store temporary data bits.
	0 08		To implement n-bit register, we require n-FFs & it will store n-bits:
	on on on on	-	Typis of registers:
-	OA OR OL GO	a).	on the basis of Data in & Data out
			Serial In Serial Out (SISO)  SIPO (Serial In payallel Out)
	N/E		- 1210 (String) 511 [Institute 535]
	Sec. 20, 10		L PISO





Bi-directional Shift legisler  It will shift data either in left to sight direction or right to left direction	a), b), c), d) e), d) 4, 3, 4, 5.	SIPO PISO PIPO Bi Dir. Shift segister  Applications of shift Register—  To store temporary data in Microprocessor Left Shift
	J.	King Counter & Johnson Counter