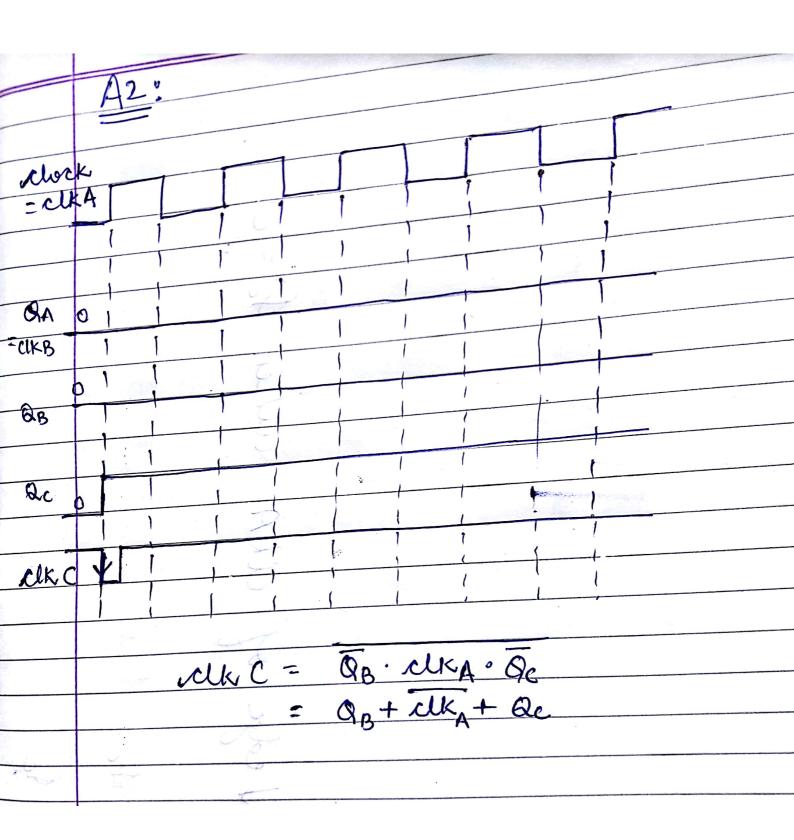


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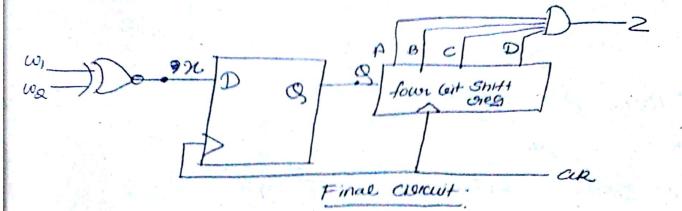
7F 7		the same of the same			CLASSTIME Page No.	<u> </u>
	-	<u> </u>			Date	-
	Let Q1	2 Q, 20	.6 : 4	1. 11		
	-	4, 20	vicio	ally		4
10	101		111-	V	*	
() V	J=1	D <sub>1</sub> = 0	D-	2 1	, 01	
		9120		221	3,20	
			1	V) ,-1	7 7 0	
723	1					
(2)	W2 l	$\frac{D_1 = 1}{1}$	, D	221		
		Q1 = 1	, Q,	21 -	2 3 2 0	W 1 9
_3			, ,			
	W=1	D 1	1 1	=0		,
<del>- (3) -</del>		9 Q 2	· )		-> 2 - 1	
		Q 2	<del></del>	0210	3 321	
_(H)	W 2	, D <sub>1</sub> =	(1,4) -	D221		
w.		Q, 2	(4)	0. 21	=> 320	
			,	7	20	
5)	W= 1	. D. 2		D, + 0		-
(5)	1					
		Q =	1	Q2 = 1	0 = 3 = 1	
		~~	G !	ĉ Ĉ		
	111	1111		3	4	
	I	1 1			1 1	
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The state of the s	THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO PERSONS NAMED IN COLUMN TWO	udan orang dispata di manang manan				
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Province and the second se	Company of the second			and the second register of the second registers and the second registers are second registers and the second registers are second registers a		
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Marin Services and Services and Services and	and the second s		3 3			

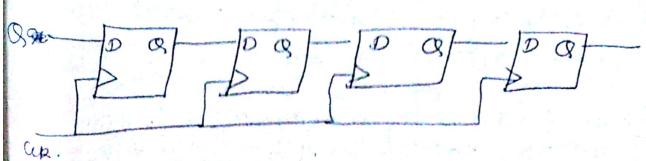


$$\underline{\underline{\mathcal{B}_{1}}}.$$

$$\omega_{l} = 0110111000110$$

COI = cas => then know will give I.



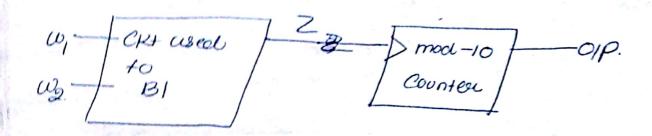


fown-lest shift register.

When A, B, C, D will be I Simulaneously, then OIPZ=1.

Four Counting the no of times 215 one, we can implement a decade mod-10 counter of winose Clock will be touggeted by 2.

When Z=1, ever will get touggered and counter will Count +1.

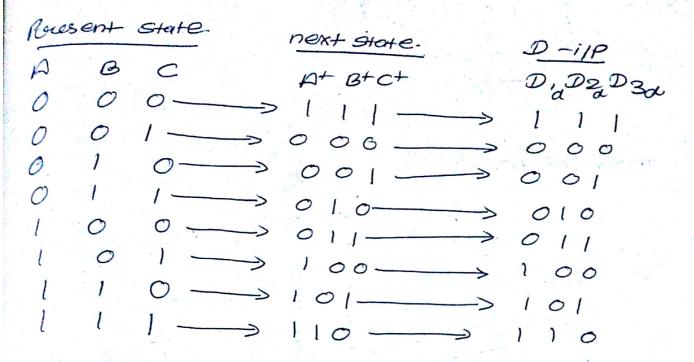


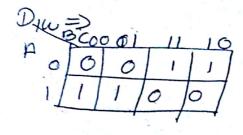
BB. Jour UP Counting->

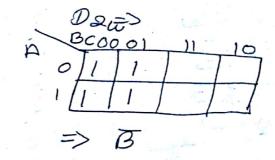
PS PS

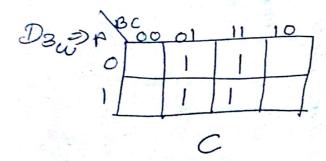
Posescot	State	next-siche	D. IJP.
AB	C	ABC	D10 D20 D30
0 0	0 -	-> 010	> 010
00	1	-> 011>	01)
0 1		> 100	
0 1	, –	->101-	0 101
1 0		> 110	•
1 0	J —	→ 1.11 <del></del>	> 111
1 ( - 1	0 -	→ 000	000
1 1	11-	(٥٥ ﴿	00)

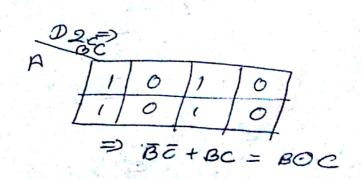
Face down Counting

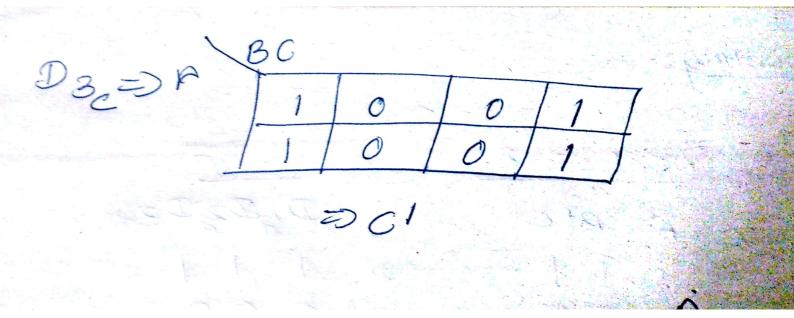


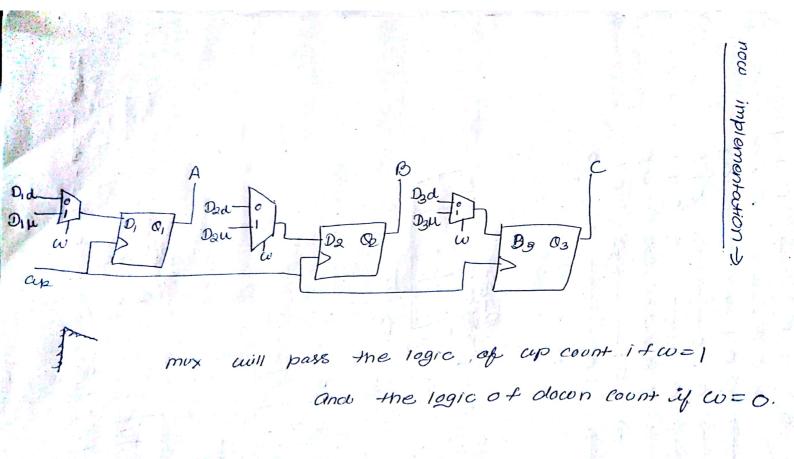


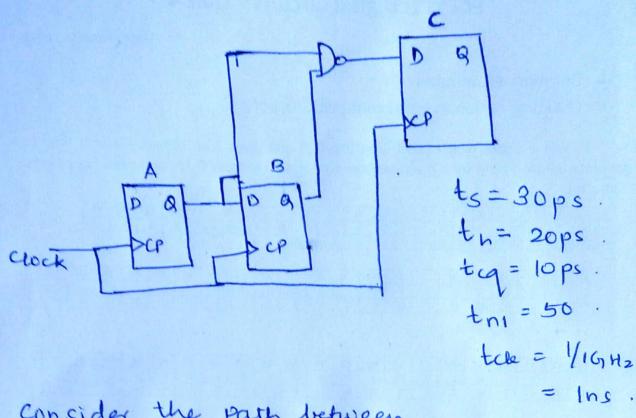












Consider the path between FFB to FFC.

tcle > tcq+tn,+tsemp.

Ins > 90 ps ... No Setup Violation

Consider the path FFA to FFB.

As per Hold Def, data should be stable till
20ps (Hold time of FFB) after the clock edge
In above case, counder clock is arriving at
both FFA & FFB at 10ns. then the Data ar

FFB should be present there for more 20ps to

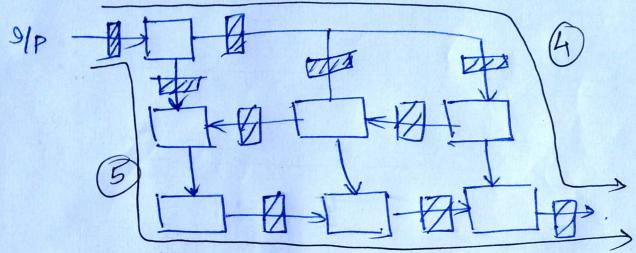
zer captured. But it will be overwritten by

FF-A data in 10ps as tog of FFA is 10ps.

Hold Violation exists.

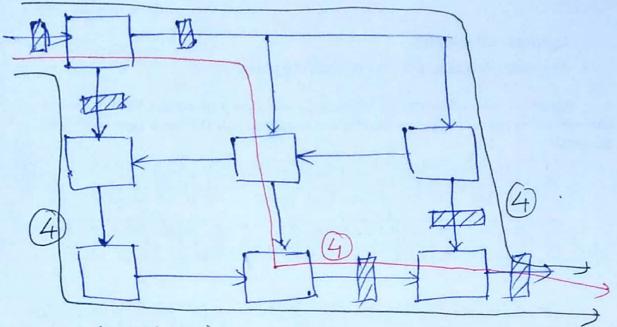
C2 .

## In circuit 1



for well formed k stage pipeline the no. of registers on the au the paths between isp and of should be same.

As they are not equal. Its not a well formed k stage pipeline.



In this circuit all the paths from ilp to of have came no of registers.

Every pipeline stage, has a register on it's of a not on is.

pipelived circuit.

The circuit is well formed pipe line. Now, The input at the circuit is with register, some on It can be considered as pipeline legister or can be ignored laying it to be of register of the circuit connected at the input of this circuit.

.. Here k can be 3 cx 4.