5:11 PM

Sunday, 5 December 2021

- \* Flip flop circuits see used to trold dater in computeil memory
- \* These are sequential concuits. Means their betaviour depends over their output.
- \* Confusers' cache memory (RAM inside microfrocenor) is also made up of flup flops.
- . Flip flops use either NOR or NAMO gates.

- Single Alipflop represents one bit c7 storage
- Only one input (S,R)
  out of two can be
  changed at a time.
- occurs, both Q and Q' becomes same.

## Kleywoods:

Set: Saving 1 Reset: Saving 0 Latch: Hold a bit Race: An error occurred

NAND	LOG16:	
3		了 文
R		2
S	R FUP FLOP	

## TRUTH TABLE

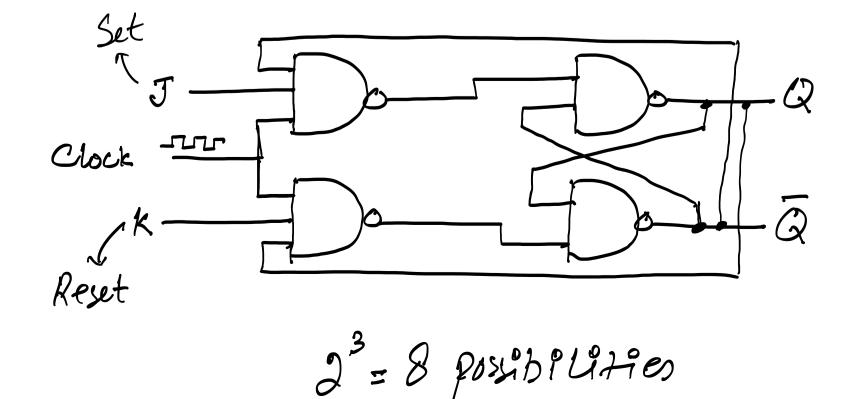
_	S	R	Q	Ō	
One	0	ţ	j	0	Set
Change	1	1	1	8	Catch
In Input	7	$\Diamond$	<b>\( \)</b>	1	Reset
aly.	1	1	<b>\( \( \)</b>	1	lateh
l	0	0	4	1	Race/from.

JK FUP FLOP

These are an improvement over SR Hisp flops as:

J=S K=R Tack Kilby

- . There is no error/race
- No Unitation of single input at a time
- -97 has a toggle/flipping option.



	K	Clek		$\mathcal{C}$	
1	$\bigcirc$	<b>^</b>	1	0	Set
0	1	<b>^</b>	0	(	Reset
1	1	<b>1</b>	1	0	Toggle
$\bigcirc$	0	1	(*	$\bigcirc$	Latch
Anything else		No change:			