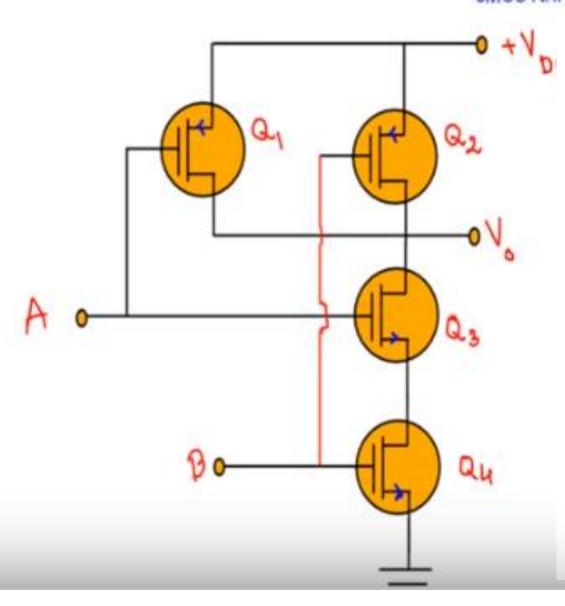
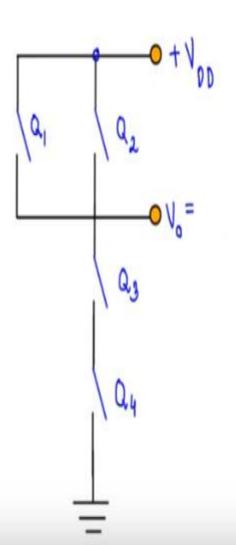
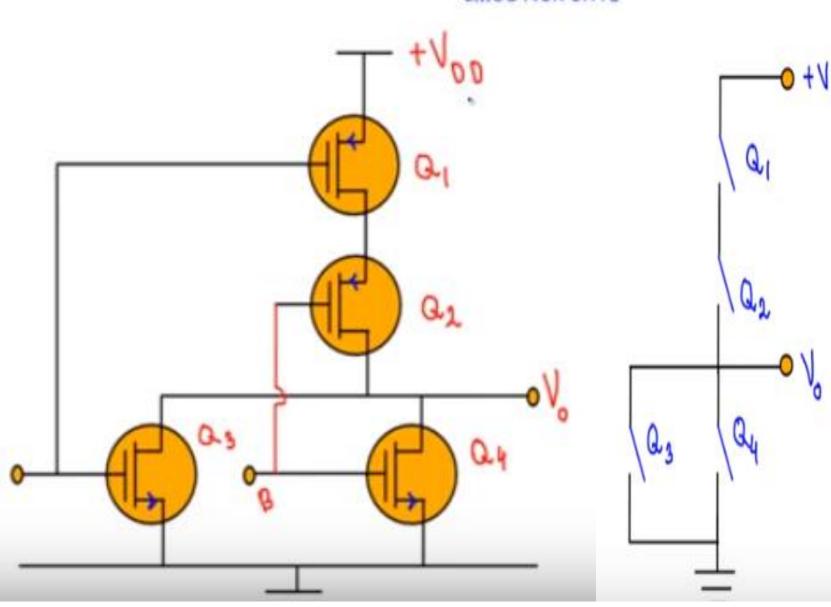
#### CMOS NAND





A	B	Q,	a,	Q3	Qy	٧,
0	0	01	٥٨	off	of f	1
0		01/	350	off	٥٧	_
1	0	off	1/0	97	off	l
	ţ	off	of f	on	on	0

### CMOS NOR GATE



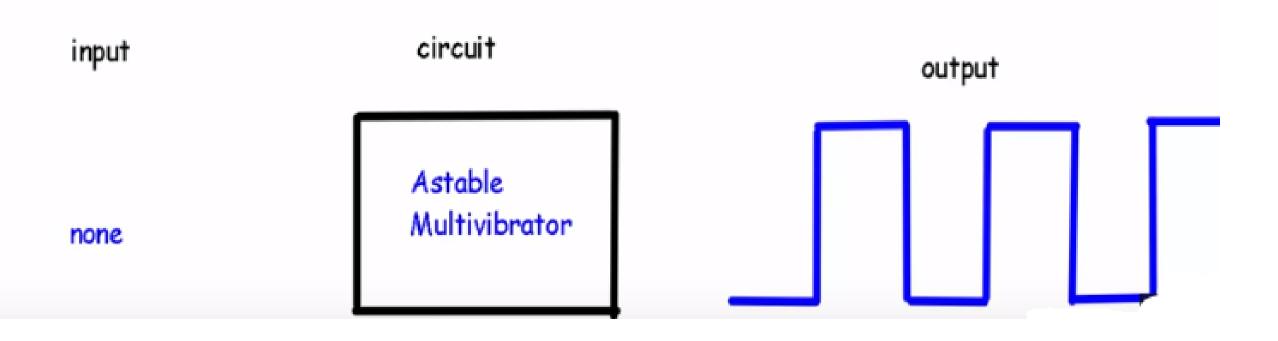
						_
A	B	aı	az	Q3	Q4	V.
0	0,	on	on	off	off	١
0		on	off	off	٥٧١	0
l	0	off	on	on	off	C
l	1	<del>off</del>	oft	on	on	0

### Multivibrators

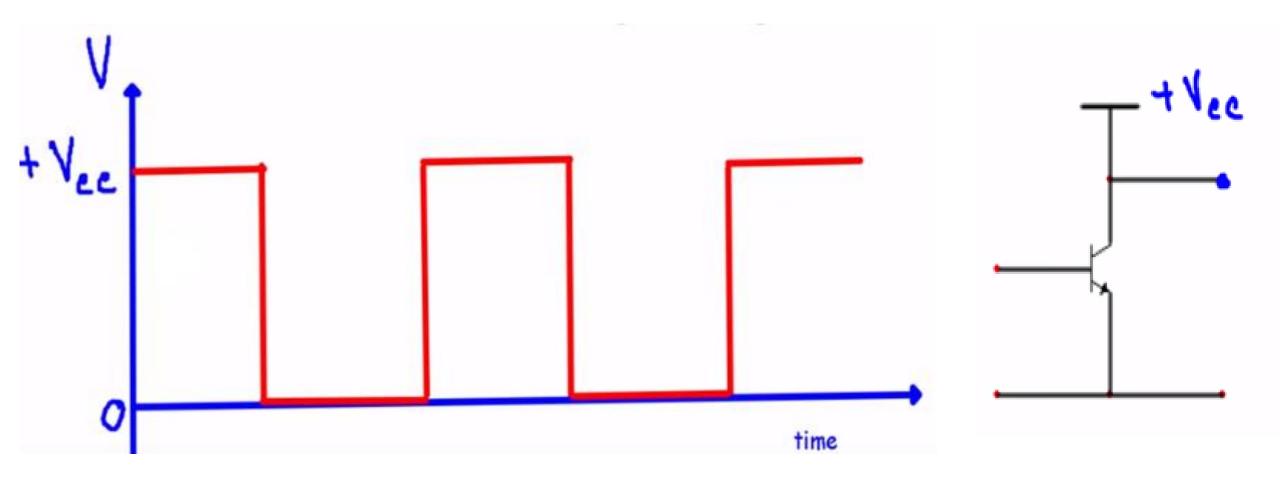
- A multivibrator is used to implement simple two-state systems such as oscillators, timers and flip-flops.
- Three types:
  - Astable neither state is stable.
    Applications: oscillator, etc.
  - Monostable one of the states is stable, but the other is not;
    Applications: timer, etc.
  - Bistable it remains in either state indefinitely.
    Applications: flip-flop, etc.

### Astable Multivibrator:

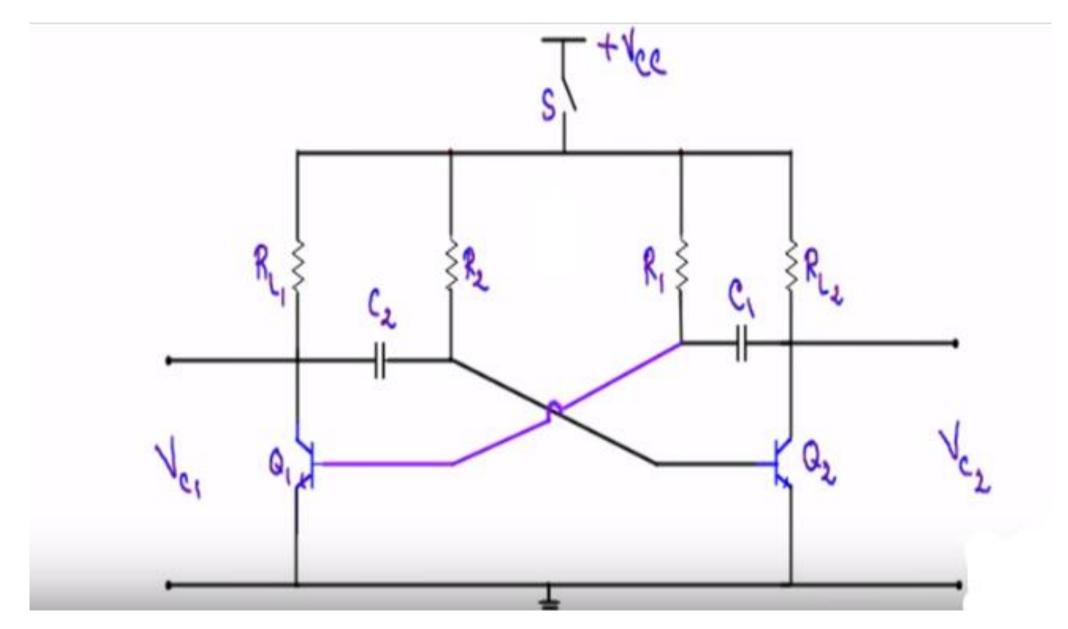
A multivibrator that generates square waveform without using any external triggering pulse is known as a stable or free running multivibrator.



# Astable Multivibrator



# Astable Multivibrator



## Astable Multivibrator

