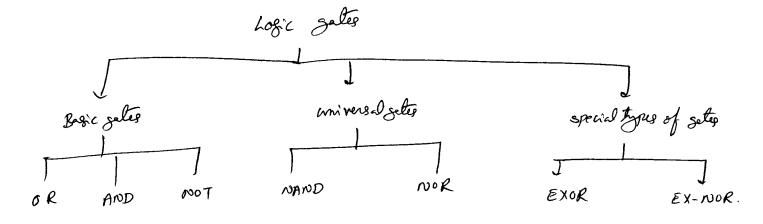
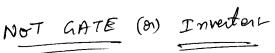
---- computer are made using very large scale Integrated circuits.

-> The Logic sete is a simple device used to make digital integrated circuits.

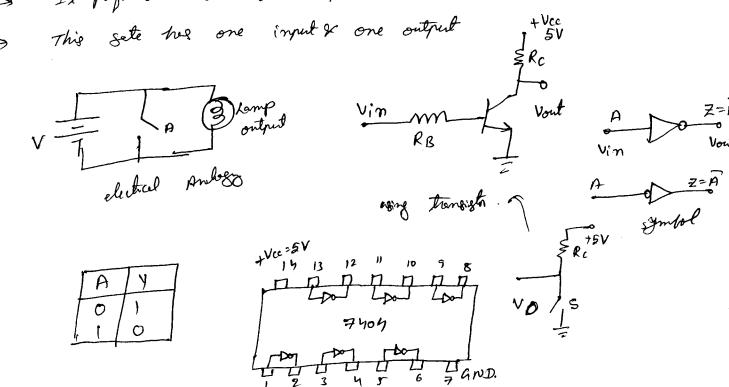
Logic setes here one or more inputs and one output.

-> Logic setes here 2 states - [0 -> Low high





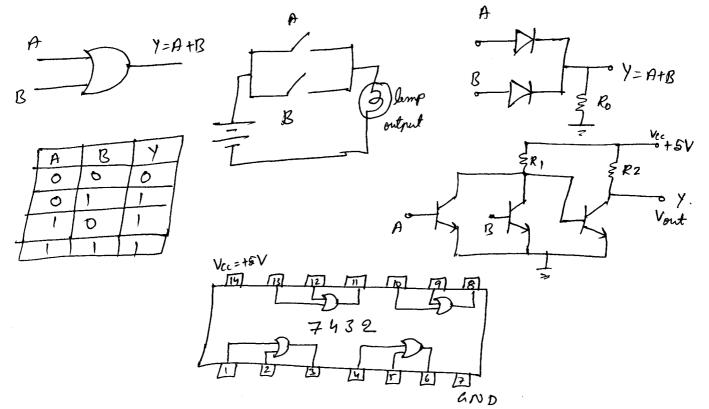
It performs inversion or complementation.





-> It performs logical addition

-> 2 or more inputs and one output

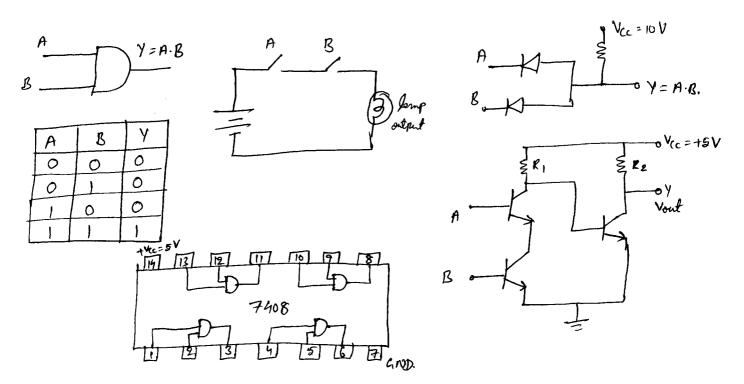


AND gete'-

-> performs logical multiplication.

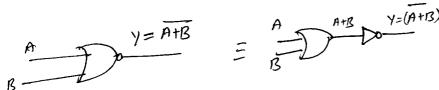
-> 2 or more injusts and one output.

-> It swes high output only when all the inputs are high,

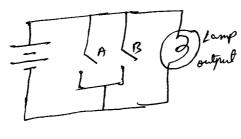


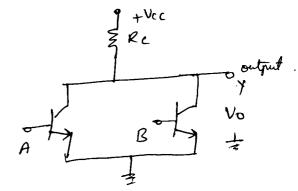
NOR gate:

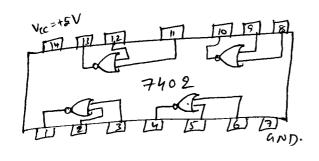
NOT OR operation >> ORsete + NOT sete.



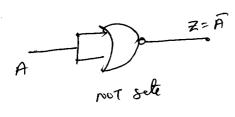
A	T B	TYT
10	0	111
10]	0
I !	0	0
L		

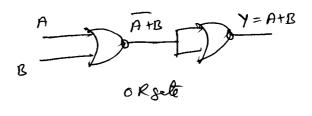


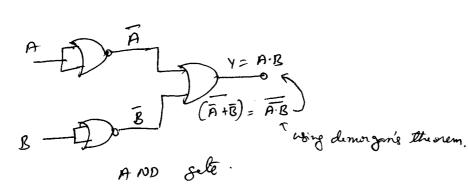




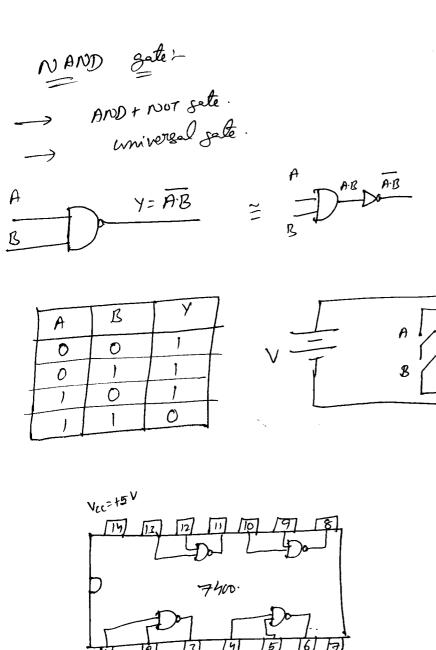


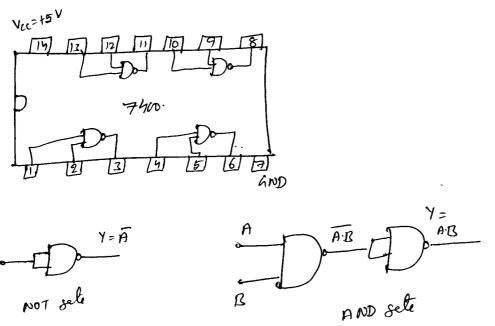


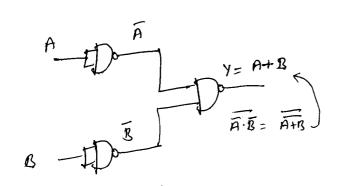




This sate is called universal sate as all sates can be implemente voing this gate.



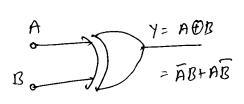




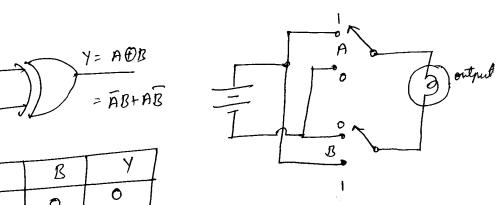
Exclusive - OR hate (Ex-OR hate):

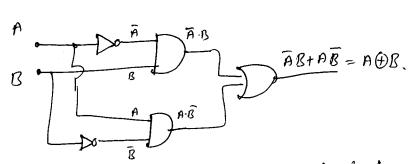
2 special logic circuite that occur opinte often in digital system are EX-OR & EX-NOR gater.

This is also called modulo-2 adder (on) half adder.

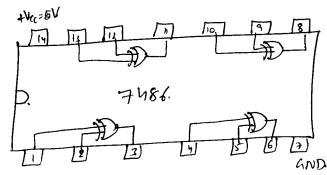


IA	B	Y
0	0	0
0)	,
,	0	
	1	0





This can be used as a conholled inventer in one input will decide water the second input should be just inverted at the output or not



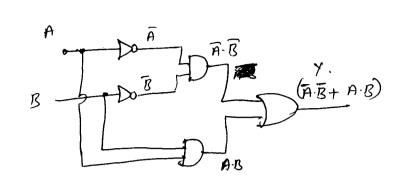
-> EX-OR of number of variables assumes a 1 stite only when odd number of input Variables assumes a I stile.

EX-NOR getel

ontput is opposit to EX-ORSete.



A	B	У
10	0	1
10		0
1	0	0
]	1



-> EX-NOR of number of variebles assumes a 1 stite only when even number (includings) of inputs variables assumes a o state.

-> This can be used as an inverte by connecting one of the injure to o'

EX-MOR sete con le used as compareta also.

