

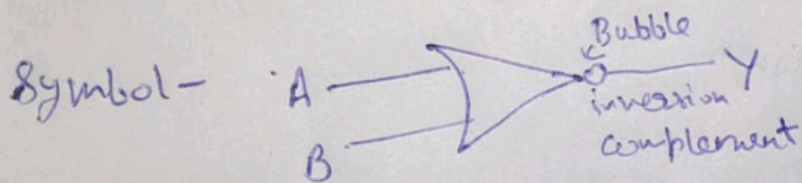
Ans- Nor Gate - This is complement of OR gate. If the logic of OR is inverted then it is known as (NOT OR) or NOR gate.

logic - If A is true or B is true then Y is false.

This means if any one or both the input are high then output becomes low

Truth Table -

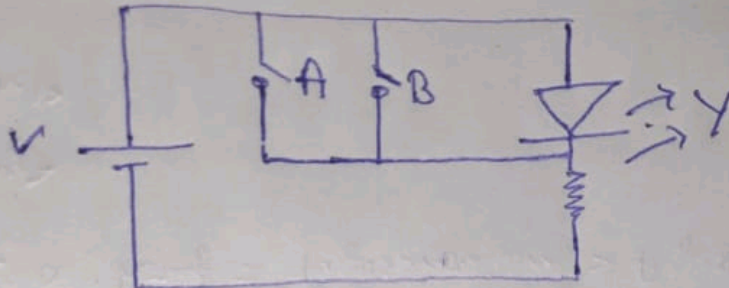
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0



Boolean Equation - $Y = \overline{A + B}$

because '+' sign indicates OR and bar is inversion of OR.

Simple Circuit



A	B	LED(Y)
open	open	ON
open	close	OFF
close	open	OFF
close	close	OFF

Hand