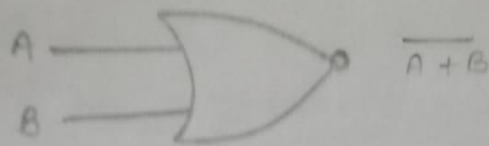


Name → Vishal Singh

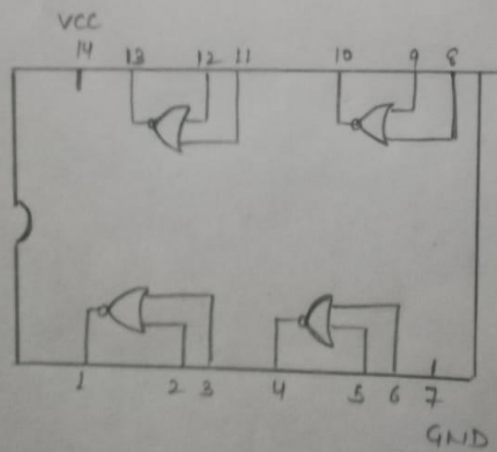
University Roll No. → 2101253

Sec → B

NOR GATE



IC - 7402



NOR - GATE

Vishal Singh

Sec → B

NOR Gate:

It is actually a series of OR gate with NOT gate. If we connect the output of an OR gate to the input of a NOT gate, this combination will work as NOT-OR or NOR gate.

Its output is 0 when any or all input are 1, otherwise output is 1.

Procedure →

- ① Make the connection as per the Circuit diagram on breadboard.
- ② Apply various combination of output according to truth table of NOR.
- ③ Note down the output reading for different combination inputs.

TRUTH TABLE

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

$$Y = \overline{A+B}$$