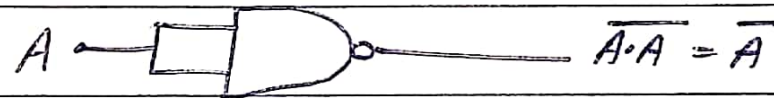


Date
23/09/21

Classwork

Q. How can you use NAND gate as an inverter?

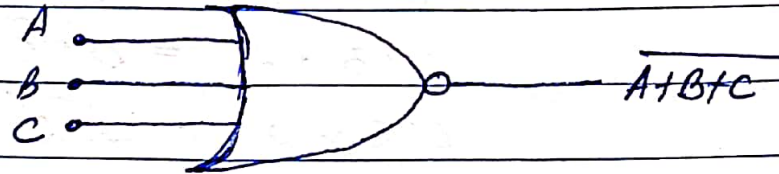
Ans:- NAND gates are universal gates and so, they can be used as an inverter (NOT gate) as follows —



In the above circuit, we have A as I/P and \overline{A} as O/P, so, the NAND gate works as an inverter.

2) Design a 3 input NOR gate

Ans: A 3 input NOR gate is as follows—



The truth table for the 3 input NOR gate is,

INPUT			OUTPUT
A	B	C	$\overline{A+B+C}$
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0