

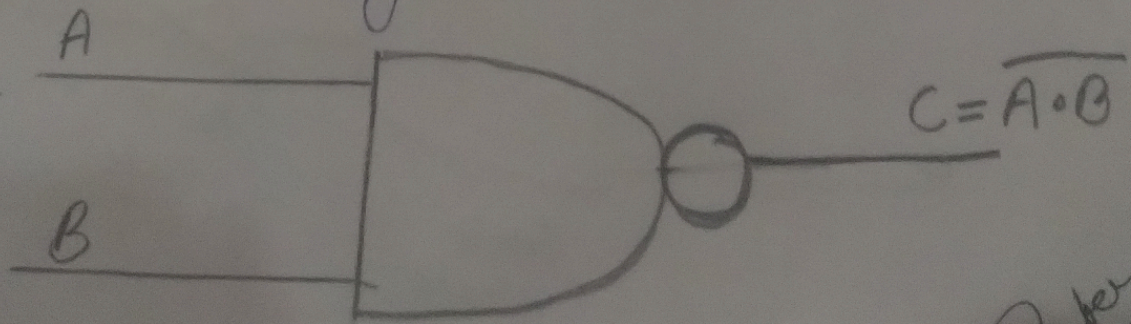
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Q.1 Discuss Working of NAND GATE

Ans A NAND GATE is a logic gate that produces a low output (0) only if all its inputs are true, & high output (1) otherwise. Hence the NAND gate is the inverse of an AND gate.

Its circuit is produced by connecting an AND gate to a NOT gate.

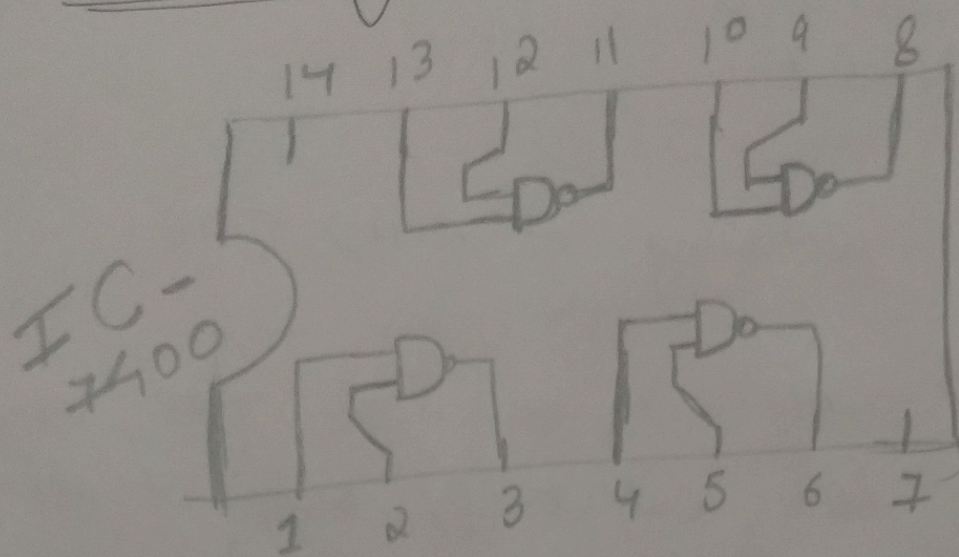
NAND gate performs the logical NAND operation. NAND gates are known as universal gates, which means they are a type of logic gate implemented any Boolean function.



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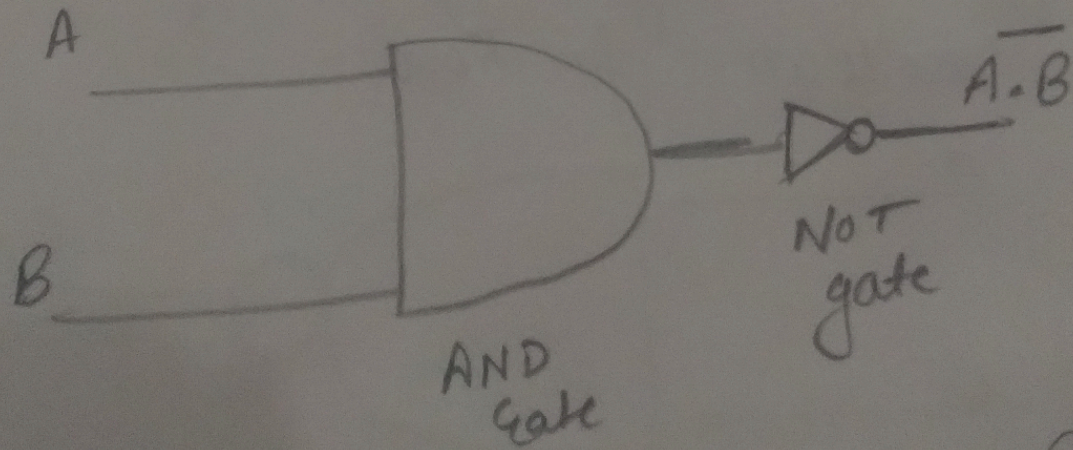
# IC - Diagram



## Truth - table

A	B	$A \cdot B$	$\overline{A \cdot B}$
0	0	0	1
0	1	0	1
1	0	0	1
1	1	1	0

## Circuit diagram



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