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9-1) Discuss the working of NAND gate with the help of circuit diagram and truth table.

Uns- I MAND gate ("not AND gate") is a logic gate that produces a low output (0) only if all its inputs are true, and high output (1) otherwise.

Hence the NAND gate is the inverse of an AND gate, and its circuit is produced by connecting an AND gate to a NOT gate.

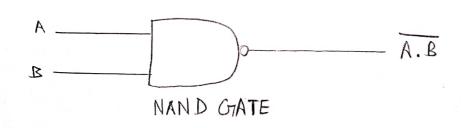
-> Just like an AND gate, a NAND gate may have any number of input probes but only one output probe.

-> The NANDgate performs the logical NAND operation.

-> NAND gates are known as universal gates, which means they are a type of clogic gate which can implement any Boolean function without the reed to use any other gate type.

AND gate, but a bubble is drawn at the output point of the AND gate.

## Circuit Diagram :-



Jourth Jable :-

AND NAND

1ml	put	Output	output
A	B	x=A · B	$X = \overline{A \cdot B}$
0.0	0101	0 0 0	0

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