

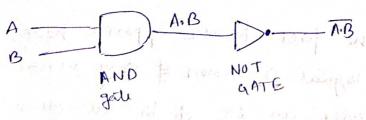
1. MAND gate:

A NAND Gate is a logic gate that produces a land output (0) only if all its input are true, of high autput (1) otherwise. Hence the NAND gate is the inverse of an AND gate, & its aircuit is produced by connecting an AND gate to a NOT gate.

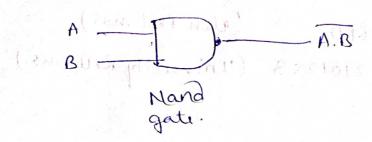
Just like an AND gate, a NAND gate may have any number of input probes but only one autput probe.

NAND gate performs the logical NAND operation, NAND gate are known as uninersal gates.

The circuit diagram of NAND gate:



The symbol of a NAND gate is similar to the AND gate, but a bubble is drawn at the autput point of the AND gate.



Truth table:

Input	Output Jugino wood
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NAND gate means "not AND gate", hence the autput of their gate is just reverse of their of a similar AND gate.

we know that the autput of the AND gate is only high or I when all the input are high or I. In all other cases, the autput of the AND gate is O

In the NAND, the fact is the opposite here, the autput is any logical 0, when of only when all imput of the gate are is & in all other cares, the output of the NAND gade is 1.

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