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2. NAND gate

In digital electronics, a NAND gate also known as Not-AND which produces a false output only if its both the as inputs are true.

In NAND gote of takes two inputs

O' or I' and produces a single output.

It produces on output 'o' only if the both the inputs are I' else the output is I'.

3t con be said that NAND gate produces at a a complement output of AND gate.

Function for NANO gate:  $F(A,B) = ABB \overline{AB}$ By Demogran's low we can say that

 $F(A,B) = \overline{AB} = \overline{A} + \overline{B}$ 

## Grevit Diagram of NAMB gate:

Touth table of NAND gate

INPUTS		OUTAN
A	-8	Y= AOB
0	0	1
0	1	1
1	0	1
1	1	0

