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DAND gated The NAND or NOTAND' god so special type of logic gab in the digital logic circuit. The NAND gab is the universal gab. It means all the basic galls such as AND, OR, and NOT gab can be constructed using all the basic gabs such as AND, OR, and DOT gabs can be constructed using the NAND gab. The NAND gab is the combination of the NOT-AND gab.

The outfest stale of the NAND gab will be low only when all the inputs are high. Simply, this gab returns the complement result of the AND gab.

The logic or Boolean expression for the NAND gab is the complement of logical multiplication of inputs denalled by a full thop or a single dot as

(A.B) = Y

Types of Digital Logic AND Gal

The HAND gale is also cal classified into three based on the Input it lakes. These are the following types of AND gale.

The 2-infect NANO Gale -

This is the simple formation of the NAND gate. In this lype of NAND gale there are only two input values and an output value.



The 3-input NAND gaillogicgail-



Truth	table -		
	input		tuftero
A	0	C	Y
0	0	0	
0	0	(	
0	1	1	1
0	(	0	1
1	O	1	3 3 19
1		O	
1	1	1	0
1	1		

The Hulti-input NAND Gods.

Just like AND, NOT and OR gods, we can also form n-input NAND gods. If

the number of inputs required ois odd, ony "unused" input can be held light

by directly connecting it to the power supply using high "switchb" pull-up

resistors there is the following expression of the 4-input NAND gods

Y = ((A.B). (C.O))

In simply words, is in expressed on:

Y=ANANO B NANO C NANO O