(1)

of Nand Gate: The NAND gate is a special type of logic gate in the digital logic cincuit. The NAND gate is the universal gate. It means all the basic gates such as AND, OR and NOT gate can be constructed using a NAND as AND, OR and NOT gate can be constructed using a NAND gate. The NAND gate is the embration of NOT-AND gate. The of NAND gate will be low only when all the off state of NAND gate will be low only when all the if are high. Simply, this gate network the complement nexult of the AND gate.

The logic on boolean expression for the NAND gote in the Complement of logical multiplication of its denoted by a full stop on a single dot as
(A·B)'= 4

The value of 4 will be true when any one of the ilp is set to 0.

The 2-input NAND gate: This is the simple formation of the NAND gate. In this type of NAND gate, there are only two ilp values and an ofp value: There are $2^2 = 4$ possible combinations of ilp. The truth table and

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Circuit diagram are following!

A o A·B o Y = A·B

A B 4
0 0 1
0 1 1
1 0 1

Cincuit diagram! simple 2 i/p logic NAND gate can be constructed using transisters connected together & as below with i/p connected directly to the transisters base. Either of the transister must be ut off 'off' for off to be Legic Ligh. This mean if both the i/p are cut logic Ligh making both the transister 'on' the resultant off is Low(o). OP 02 0, A off off 0 02 off off 00 off 0 02