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MID TERM PRACTICAL

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A NAND 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 Enverse 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 respect frobe.

The NAND gate performs the logical NAND operation.

NAND gates are known as universal gates (along with NOR gates), which means they are a type of logic gate of which can implement any booloan furtion without the need to use any other gate type.

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Basic logical construction of NAND gate:

A B AND A.B DO A.B

AND gate truth table:

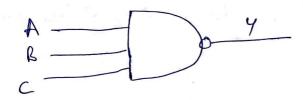
Input:

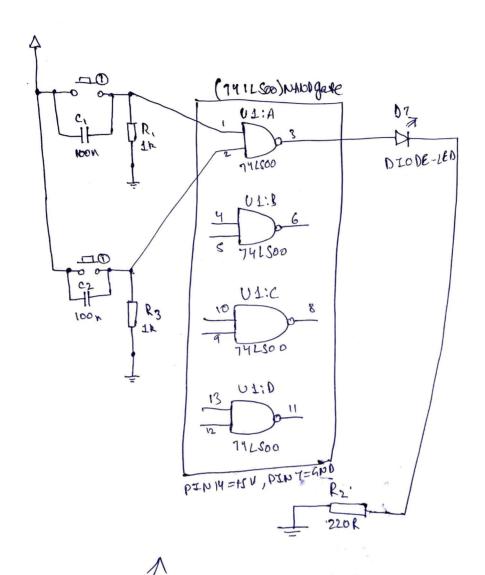
A B X = A.B

A B  $X = \overline{A.B}$ O O 1
1
1
1 O 1

3 input NANDgate

1.





Circuit Diagram of NAND zete