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MID ENTERM PRACTICAL

CO 4 CA

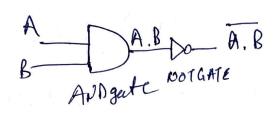


A NAND gate is a logic gate that produces a low Output (0) only if all its inputs are true, and high output (1) otherwise. Hence the NAND gate is the enverse of an AND gate, and its circuit is produced by correcting an AND gate to a NoTget. Just like an AND gate, a NAND gate may have any number of input probes but only one respect

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 ef logic gate of which can implement any boolow furtion without the need to use any other gete type.



basic logical vanstruction of NAND gate:



NAND gak truth table !-

Inputs

Output

A R

X = A.B

0 0

1

0

4

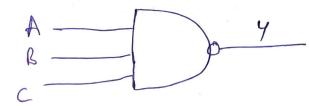
1 0

1

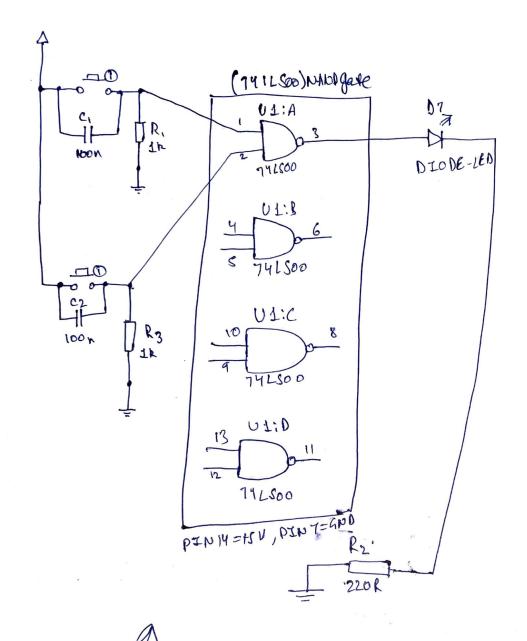
10 1

0

3 input NANDgate







Circuit Diagram of NAND zete