Name - Harfrut Snigh Class - MCA 1'D' Rall no - 21711279 Bubjet - Computer organisation & Suchi testure Horking of NAND Gate-A NAND gate ("not AND gate") Is a logic gate
that for duces a low output (o) only If all
Its Inputs are true, and high output (v) offerine Hence the NAND gate Is the Inverse of an AND gate, and It's viruit Is produced by connecting and AND gate to a NOT gate. Tust like an Angate a NAND gate may have any number of Input probes but only one output probe. The NAND gate performs the logical NAND operations.
NAND gates are known as universal gretes falong with Huy are a type of logic gate which can Inflement any Bookean function without the need to use any ofer gate type.

The basic logical construction of the NAND gate to show below (you can see It Is an AND gat followed by a NOT gate): A AND GATE A.B The symbol of a NAND gate Is smileer to the AND gate but a bubble Is drawn at the output point of the AND gate. The symbol of the NAND gate Is shown below. A-B B NAWD GATE NAND gat means "not AND gate" hence the output of this gat Is just neverse of that of a similar AND gate. In the NAND, the fact Is the opposite here the output Is only logical of when the and only when all Inputs of the gate are is, and In all other cases, the output of the NAND gate Is high of I. Hence the fruth table of a 2 Input NAND gate can be represented as: Inputs As we can see that this Is not the neverse of the fourth tuble of an AND gate.