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Or The NAND gate is a combination of an AND gate and NOT gate. They are connected connected in coscade form. It is also called Negated and gate. The NAND gate provides the false or low output only when their outputs is high or true. The NAND gate is essential because different types of a boolean functions. are implemented by wing it.

1) The NAND gate has the property of Junctional. Completeness.

(2) You junction completeness means any type.

of gester can be implemented by

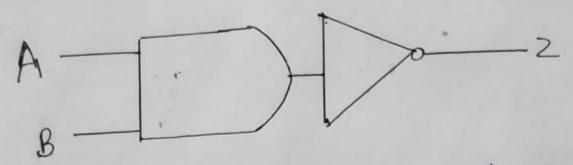
using the NAND gate

3 It performs the junction of OR, NOR and. AND gate.

The logic symbol for the gates. 10 shown below.



The logic Circuit of the NAND gate is shown belows.



From the logic circuit, the output can be expressed as.

2 = A.B

The Youth Yable.

from the truth table of the gate, it is clear that all the inputy must be high to get a low output and

if any of the input is low, the output obtained will be high o If any one of the input. is also high the output will be high