

Name - Kanika Bisket

Roll No - 2101093

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Ans-1 - Working of NAND Gates:

NAND gate is the combination of two basic logic gates, the AND gate and the NOT gate connected in series. The NAND gate & NOR gate are called universal gates.

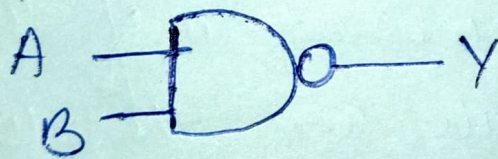
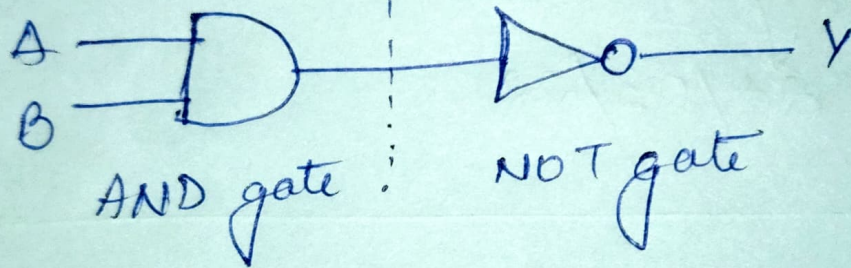
The output of a NAND gate is high when either of the inputs is high or if both the inputs are low. In other words, the output is always high and goes low only when both the inputs are high.

Expression: $Y = \overline{A \cdot B}$ ~~(A.B)~~

Truth Table

Input		
A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

Circuit Diagram



NAND gate

Pankaj