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Q1) NAND gate

Apparatus Required: NAND gate IC, power supply, Hook up wires and breadboard etc.

Theory: NAND gate is actually series of AND gate (working) with NOT gate. If we connect the output of an AND gate to the input of a NOT gate, this combination will work as NOT-AND or NAND gate.

-> Its output is I when any or all inputs are O, otherwise output is O.

The logic NAND gate is generally called as a "UNEVERSAL GATE" because it is one of the most used logic gate types.

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* Connect the vcc and of ground to the pins specified by the data sheet.

* Do all the connections as per the IC diagram, Switch on the power supply

* After completing the connections, properly observe the output and match in it with the given truth table.

Rosult: The result of the experiment has been, verified successfully

Truth Table

Input		Output
A	B	C= A.B
0	0	1
0	1	1
1	0	1
		0

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IC Diagram



