Introduction Logic Gates And Truth Table

- The most basic digital devices are called gates.
- Gates got their name from their function of <u>allowing or</u> <u>blocking</u> (gating) the flow of digital information.
- A gate has one or more inputs and produces an output depending on the input(s).
- A gate is called a combinational circuit.

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Types Of Logic Gates

These are the basic gates:

- 1) OR
- 2) AND
- 3) NOT

Some more logics can be made by combining these basic gates.

Universal gates:

- 1) NOR
- 2) NAND

Combinational gates:

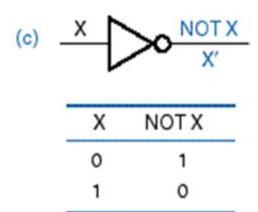
- 1) XOR
- 2) XNOR

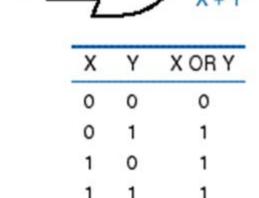
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Digital Logic

- Binary system -- 0 & 1, LOW & HIGH, negated and asserted.
- Basic building blocks -- AND, OR, NOT

(b)





X OR Y

