

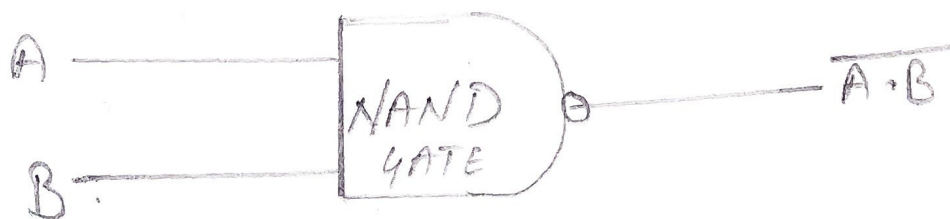
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## Question 1 N/AND GATE .

⇒ A N/AND gate is a logic gate that produce a low output (0) only if all its inputs are true and high output (1) otherwise. Hence the N/AND gate is the inverse of an AND gate, and its circuit is produced by connecting an AND gate to a NOT gate. Just like an AND gate, a N/AND gate may have any number of input probes but only one output probe.

N/AND gate known as Universal gates which means they are a type of logic gates which can implement any Boolean function without the need to use any other gate type.



*[Signature]*

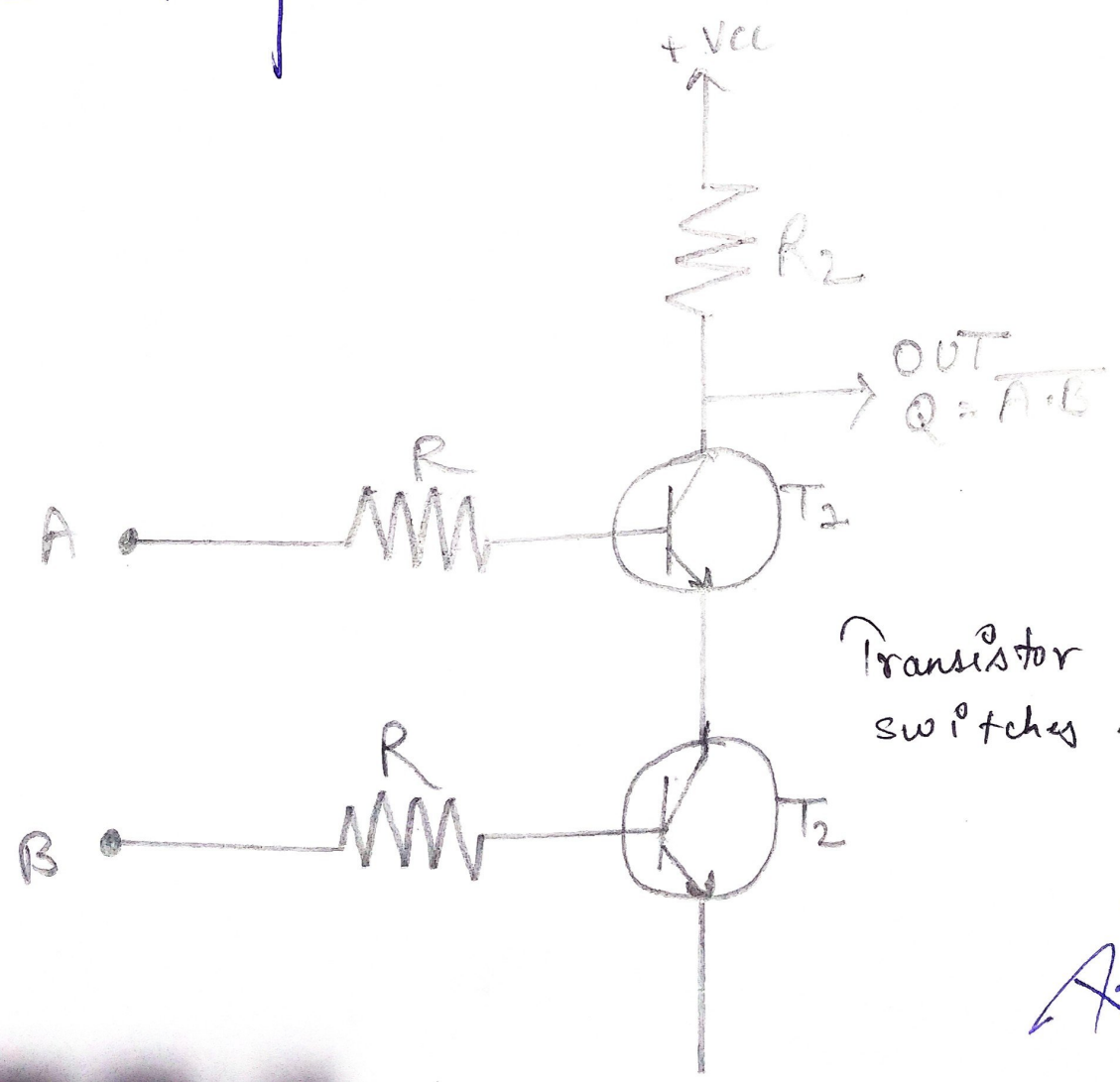
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# TRUTH TABLE

Inputs		Output
A	B	$X = \overline{A \cdot B}$
0	0	1
0	1	1
1	0	1
1	1	0

## Circuit Diagram.



Preeti