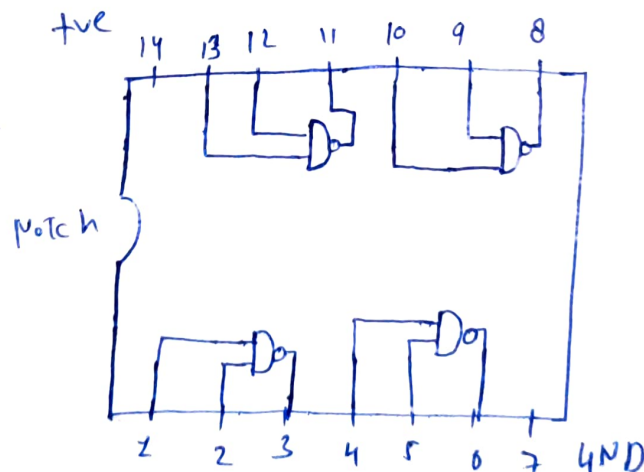


Name - Amit Singh Bora Roll No - 1022722

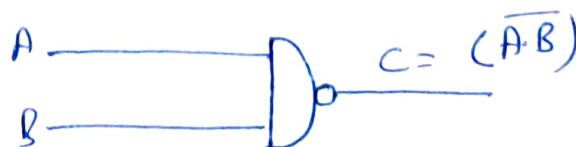
Sub - Computer Organization.

Q1. NAND gate:- The logical NAND gate is generally classed as a "universal gate" because it is one of the most used logic gate types, all gates can be implemented by NAND gate. Boolean expression  $Q = \overline{A \cdot B}$ . The NAND gate has an output low (0) only when all inputs are high (1) it is inverse of AND gate.

IC diagram:-



Logic Diagram:-



Amit Singh Rana.

Truth Table

Input		Output
A	B	$C = \overline{A \cdot B}$
0	0	1
0	1	1
1	0	1
1	1	0

NAND Gate