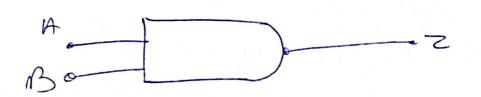
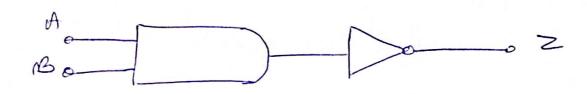
Ans NAND gate: The NAND gate is a combination of an AND gate & NOT gate. They are connected is cosecide form. It is also called regated AND gate. The NAND gate provide the false or low output only when their outputs is high or true. The NAND gate 18 essential because different types of a boolean function as implemented by using it. The WAND gate has the property of functional Completeners. The function completeness means any types of getes can be implifted by using the NAND yate- It performs the function of or, work & AND Gate The logic symbol for the gate is shown





The logic circuis of the NOND gate:



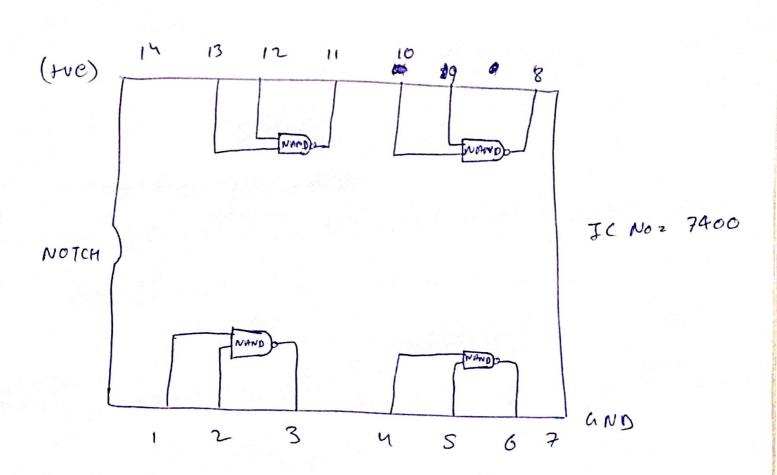
Boolean expression!

Z = A·B

Touth toble.

| h h | B | Z = A.B |
|-----|---|---------|
| 6   | 0 |         |
| 0   | 1 |         |
|     | 0 |         |
|     |   | 0       |
|     |   |         |

## IC Diagram:



Jaliwa