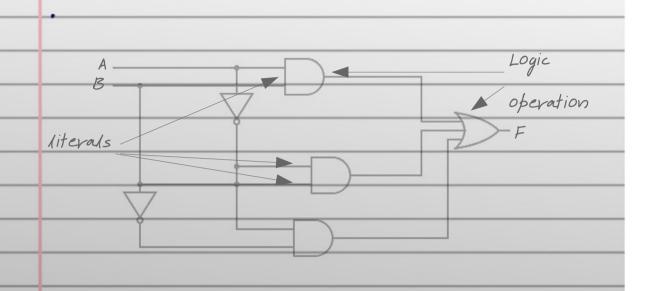
Practical-2
Aim :Simplify given Boolean expression and realizeit.
Boolean expressions are composed of :
<ul> <li>Literals Variables and theircomplements</li> <li>Logical operations</li> <li>Boolean expressions are realizedusing a network (or combination)</li> </ul>
• of logic gates.
Each logic gate represents one of the literalin the Boolean expression



Boolean expressions are evaluated by Substitutinga 0 or 1 for each literalalculating the logical value of the expression.

A Truth table specifies the value of Boolean expression on for every combination of the variable in the Boolean expression.

For an n-variable Boolean expression the truth table has 2 raised to n rows ( one for each combination).

Two Boolean expression are equivalent if they

have the same value for each combination of the variable in the Boolean expression.
F1 = (A+B)' $F2 = A:B'$
•