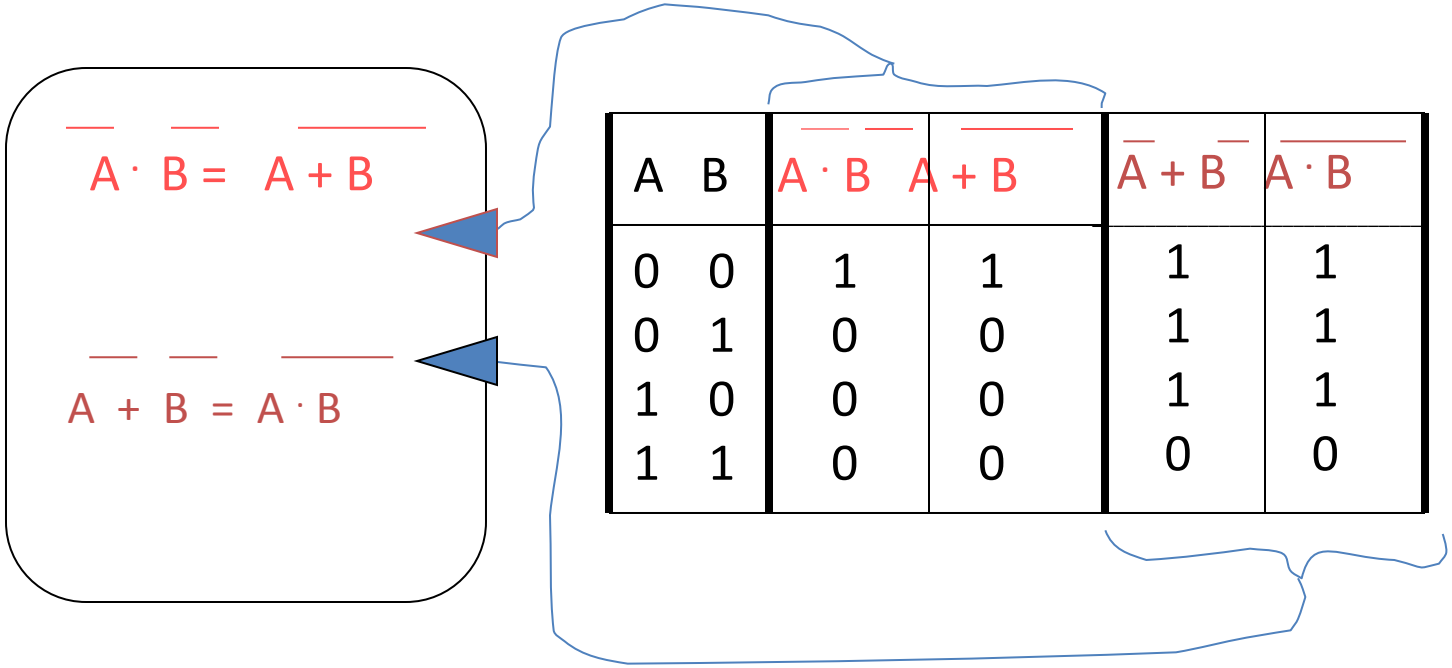
DeMorgan's Theorem



A	B	$\overline{A} \cdot \overline{B}$	$\overline{A + B}$	$\overline{A} + \overline{B}$	$\overline{A \cdot B}$
0	0	1	1	1	1
0	1	0	0	1	1
1	0	0	0	1	1
1	1	0	0	0	0

Simplification using Boolean Algebra

- Example :-
- AB + A(B+C) + B(B+C)
  - Sol:
  - AB + AB+ AC+BB+ BC
  - AB + AC + B + BC
  - AB + AC + B
  - B + AC
- ……. HOME WORK ……..
- Example :-
- $A\,B\,\bar{C} + A\,\bar{B}\,C + A\,\bar{B}\,\bar{C} + \bar{A}\,B\,\bar{C} + \bar{A}\,\bar{B}\,\bar{C} + \bar{A}\,B\,C$
- $\bar{A}\,B\,C\,(BD + CDE) + A\,\bar{C}$