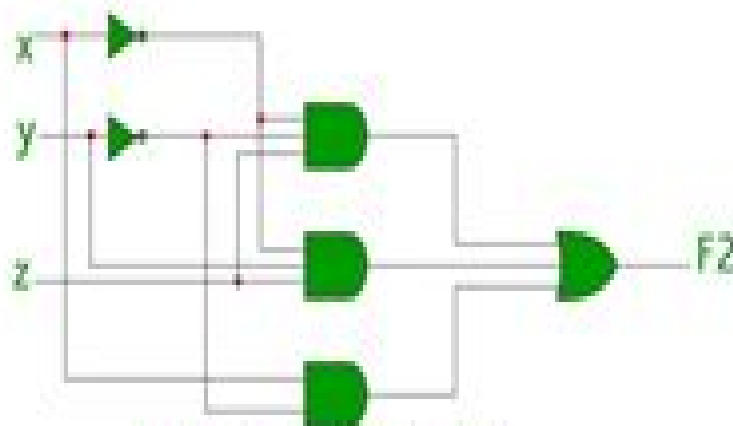


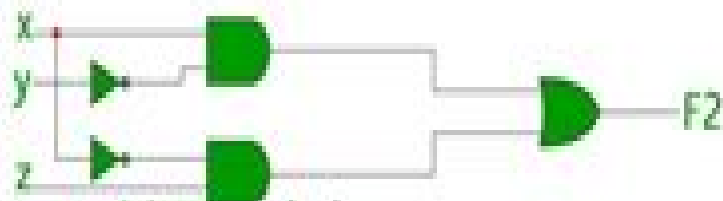
Need of Minimization



- For example, the function $F = \bar{X}.\bar{Y}.Z + \bar{X}.Y.Z + X.\bar{Y}$ can be minimized to $\bar{X}.Z + X.\bar{Y}$
- The circuits associated with above expressions is –



(a) $F2 = x'y'z + x'yz + xy'$



(b) $F2 = xy' + x'z$

❖ It is clear from the adjacent image that the minimized version of the expression takes a less number of logic gates and also reduces the complexity of the circuit substantially.

❖ Minimization is hence important to find the most economic equivalent representation of a Boolean function.

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Thirumalaisamy P.
Velavancorresponding



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