DLD LAB 07

Boolean algebra and Simplification of Boolean expressions - II

Objectives

Learn how to simplify Boolean logic equations using DeMorgan's theory.

Draw the simplified and the original Boolean expression and make sure that they are both equivalent by filling-in the truth table. Implement in the lab.

Task 2: Simplifying Boolean functions
Simplify the following Boolean expression
F (A, B) = (A . B) + A' (A+B)

Ta-sk 3: Simplifying Boolean functions
Simplify the following Boolean expression
F (A, B, C) = (A+C') + C (C.A' + (B.A) +C

Task 4: Simplifying Boolean functions
Simplify the following Boolean expression
F (A, B, C) = AB'C'+ A'B'C'+ A'BC'+ A'B'C