Lab 5

Note:

Show all the working on paper (truth tables, K maps, equations etc.) and submit their pictures

Implement the questions where it is written; "implement on logic works" or specific part only

Q1:

For the Boolean functions **implement the circuit on Logic Works** and make a **truth table**.

F2 = [(A.(B+C')+(A'+C')]'. C

Max terms and min terms:

Q2:

Find Max terms from the following Min terms

(i) F(X,Y,Z) =Σm(1,3,5,7)
(ii) F(X,Y,Z) =Σm(0,2,4,6,7)
(iii) F(A,B,C) =Σm(0,1,3,4,5,7)

In Q2 Only Implement part (iii) on Logic Works for Max terms.

Q3:

For the Boolean function $F1(A,B,C) = \sum m(0,2,3,4,6) + d(7)$ do the following:

a) Find truth table
b) Find minimal SOP expression for Boolean function $F1$ using K-Maps and **implement it on Logic Works**

Q4:

For the Boolean function $F1(A, B, C, D) = \sum m(0,2,4,6,7,8,10,12,14,15) + d(3,11)$ do the following:

a) Find truth table
b) Find minimal SOP expression for Boolean function $F1$ using K-Maps and **implement it on Logic Works.**