

CMPE212 Lab6- Building Circuit from a Given Logic using K-Map

Objective

To obtain the truth table from a given problem and then implement it in hardware using K-Map.

Instructions-

1. Find the truth table for an output of 3 input variables which is true when the input is an even number or a multiple of 3.
For example, the output is 1 for inputs 010 (decimal 2) or 011(decimal 3).
2. Find the expression for the output in terms of the inputs using K-Map.
3. Build the circuit to implement the function you obtained from the K-Map.
4. Get the truth table from your circuit and verify with the one obtained in step 1.
5. Show the results to the TAs.

Remarks

Don't forget to connect the DIP switch properly. Always ask questions to your TAs.