

Lab 8

Circuit Design with Logic Blocks

Lab report due before your lab period on October 26–28

- For this lab, only use the 74HC138 and 74HC251 ICs to implement your logic, the bar LEDs as outputs, and the switches as inputs
- Design a circuit that implements F using only the 74HC138 and 74HC251 ICs

$$F(a, b, c, d) = \prod M(2, 5, 8, 15)$$

- Build your circuit and verify its operation using a truth table
- Demonstrate your circuit to your TA

The report for this lab should include the following sections:

1. Description/Objectives
2. Procedure, which must include
 - (a) The truth table you used to test your implementation
3. Observations
4. Conclusions