Neil Sonalkar

9/26/16

12:30 Lab

Digital Design Lab # 3

Objective: The purpose of this experiment is to analyze a simple combinational circuit, and learn to build and verify that the circuit operation matches your analysis.

Circuit Description: The first step after gathering all the materials is to connect inputs A, B, and C to switches. Next, wire the outputs Y and Z to the LEDs. Once the setup is complete, check all combinations of the circuit to verify if the truth table matches your truth table. After the TA helps wire the counter circuit outputs to the circuit inputs and connect the logic analyzer. The last step is to take a screenshot of the timing diagram of the circuit.

Conclusion: This lab was similar to the last lab. However, I have learned how to build and verify a circuit a lot easier. I have gotten used to wiring and using the MSO software.





