

Computer Circuit Fundamentals (Lab 10)

MUXs

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OBJECTIVES

- To understand how multiplexers function.
- To understand how to simulate multiplexers using a circuit simulator.
- To identify multiplexer chips (4-to-1: 74153, 8-to-1: 74151).

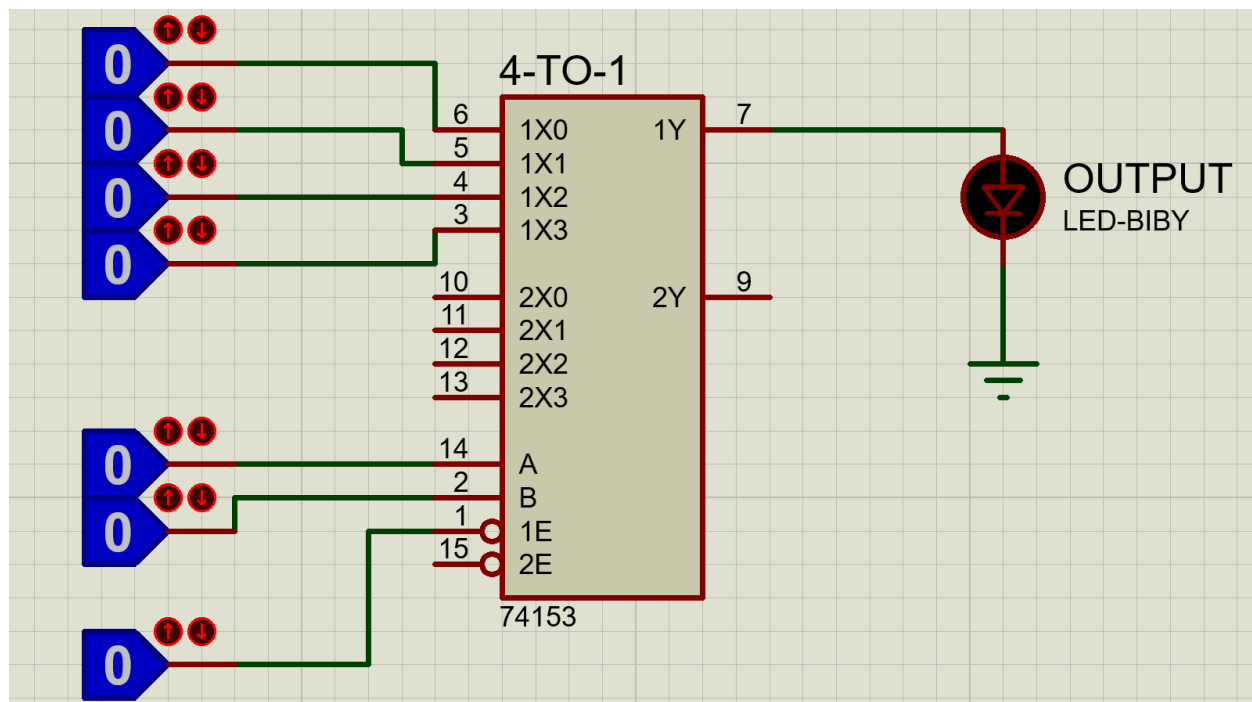
DESIGN

Experiment

- First, we researched how multiplexers function and how to identify them. Following that, there were two experiments conducted in this lab. The first one, to simulate a 4-to-1 MUX (74153) and to check results using a truth table we created. The second one, to simulate an 8-to-1 MUX (74151) and to check results using a truth table we created. The simulations were done in Proteus. Attached to this lab report you'll find the truth tables for the two circuits.

SCHEMATICS

4-to-1 MUX



8-to-1 MUX

