

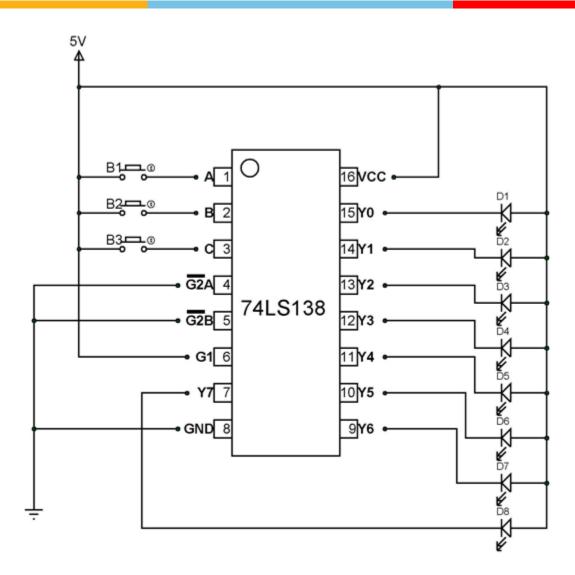


Digital Design: 2020-21 Lab 7 Combinational Circuit Design using Decoders and Multiplexers By Dr. Sanjay Vidhyadharan





The 74138 Decoder





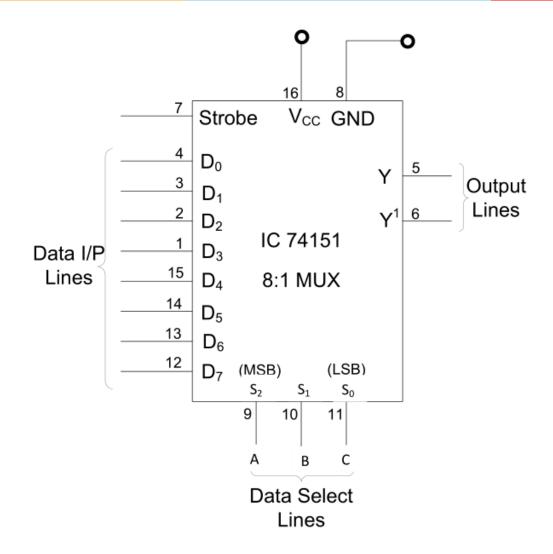
The 74138 Decoder

Problem 1: (a) Implement a Full Adder (b) Implement a Majority Circuit

Note: Use single 74138 for both circuits



The 74151 Mux





The 74151 Mux

Problem 2: Implement a Full Adder using 74151 Mux

Note: Use separate 74151 Mux for Sum and Carry



Demonstration

10/3/2020 6