

ECE 223 LAB EXPERIMENT 8

Preparation Part:

- 1) What is a decoder?
- 2) What is 74LS47? Draw the pin diagram of it and study the pin functions.
- 3) Design a 2x1 multiplexer using 2 AND, 1 OR and 1 INVERTER.
- 4) What is seven segment display?
- 5) Study and draw the BCD to seven segment circuit using a 74LS47 and seven segment display. Write all the pin numbers of 74LS47.

Lab experiment:

Set up the circuit of BCD to seven segment display you have designed in preparation part 5.