

# CMPE212 Lab4- Lab Assignment

## Objective

To build and verify the given circuit. To implement the circuit using hardware and verify the outputs.

## Instruction

1. Collect the necessary equipment from the corner of the last workplace.
2. Find out the truth table from the given circuit using logical operations.
3. One of the lab partners can work with the coding in Verilog, while the other with the hardware.
4. Write programs and obtain the truth table in Verilog.
5. Build the circuit on the breadboard and verify the outputs.
6. Show the following to the TA-
  - i) Truth table using logical operations, ii) Truth table from the Verilog, iii) Truth table from the circuit input-outputs.

Note: i) Always refer to the discussion slides of this lab and previous labs for both coding and hardware.

- ii) Debug your circuit with the help of the discussion slide.

## Remarks

Have fun and finish your job in time.

Don't forget to pack your components up in the provided box and return all the equipment in the right place.