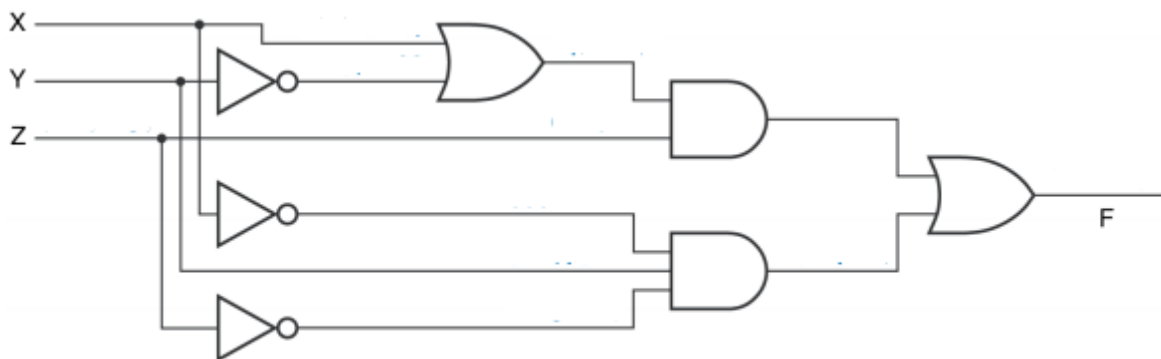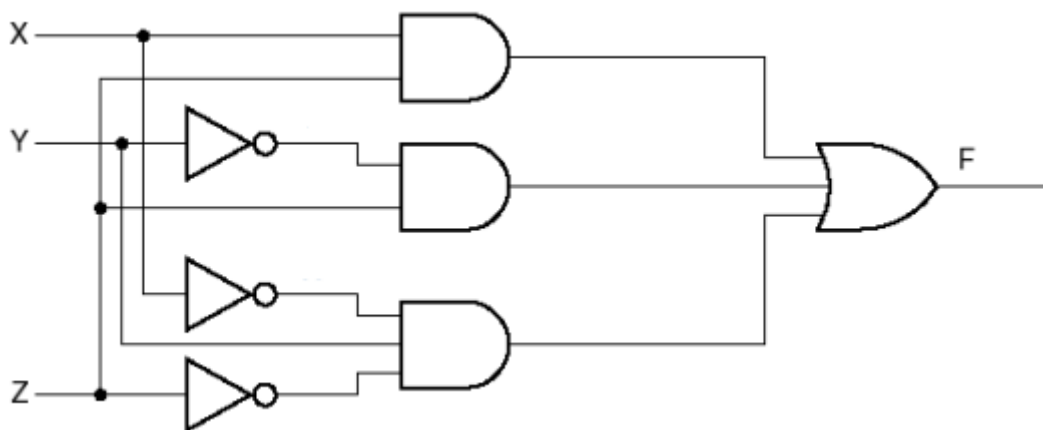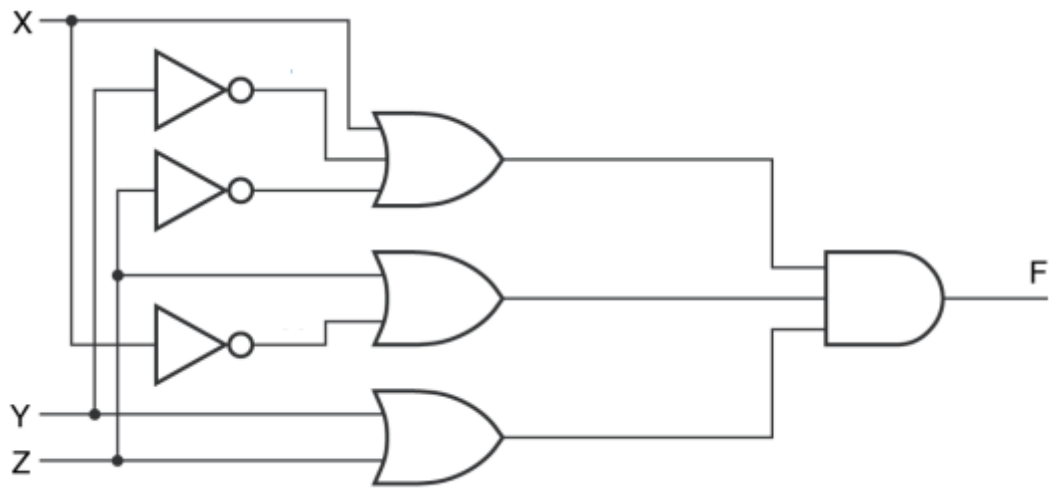**Combinational Circuit Analysis**

1) A. Implement the circuit given below using Y-0016/002D board. Fill the truth table using logic switches and LED outputs.

   B. Obtain the function F algebraically and verify your experimental results.

2) Implement the circuits given below and demonstrate that those circuits are equivalent with the circuit given in the first question. (Demontrate both experimentally and algebraically)

3) Reduce the circuit given below into its simplest form, and demonstrate that those two circuits are equivalent