**Purpose of Circuit**

This is where you should briefly (a few sentences) describe the purpose of the circuits (main objectives of the experiments).

**Description of Circuit**

This is where you should explain the operation of your circuit in detail. Include a description of any logic that you have designed, and explain **how you came up with your design**. This means things like K-Maps, state diagrams, truth tables, etc…

**High Level Block Diagram**

For more complex designs, divide your design into blocks and include a top-level block diagram showing only the major components of your design and their interconnections.

**Logic Diagrams**

Include a logic diagram showing the gate-level layout of your circuit.

**State Diagrams and Tables**

For any design that uses a state machine, you should include a state diagram and, optionally, transition tables to show how your state machine works.

**Answers to Lab Questions**

Answer any questions asked in the LAB section of the lab manual.

**Answers to Post-Lab Questions**

Answer any questions asked in the POST-LAB section of the lab manual.

**Results**

Show the main results of the experiment

**Conclusion**

Briefly write your conclusions and any analysis and/or discussion of the results