The student must include the following 6 parts in the report.

The reports must be individual submission and the common parts for a group can be parts 1,2,3,4 below. The parts 5, 6 and 7 below are individual contribution and results.

0. **Cover Page**
1. **Table of Contents**
   - Include all the chapters/Sections with Page Numbers.
2. **Introduction**
   - Description of the components in not more than 10 sentences.
3. **Components: Latch1, Latch2, 4:16 Decoder, FSM**
   - Description of the components in not more than 5 sentences.
   - Truth Tables
   - Circuit Diagram and/or Block Diagram as required for the component.
   - Waveform File for each component.
4. **ALU_1 for Problem Set 1 of the Lab 6 procedure**
   - Description outlining purpose and design of the component.
   - Screen shot of the Block schematic file BDF (either hand written or using software).
   - Mention the purpose of all inputs and outputs of this component.
   - Table of Microcode's generated by decoder for ALU_1.
   - Complete Waveform File (using FSM student ID).
5. **ALU_2 for Problem Set 2 of the Lab6 procedure**
   - Description outlining purpose and design of the component. The
   - Screen shot of the Block schematic file BDF (either hand written or using software).
   - Mention the purpose of all inputs and outputs of this component.
   - Table of Microcode's generated by decoder for ALU_2.
   - Complete Waveform File (using FSM student ID).
6. **ALU_3 for Problem Set 3 of the Lab6 procedure**
   - Description outlining purpose and design of the component.
   - Screen shot of the Block schematic file BDF (either hand written or using software).
   - Mention the purpose of all inputs and outputs of this component.
   - Table of Microcode's generated by decoder for ALU_3.
   - Complete Waveform File (using FSM student ID).
7. **Conclusion**