**1. Lab Cover Sheet**

**2. Introduction (No pre-lab for this lab)**

**A brief description of your design, highlighting any special problems that you encountered, design decisions that you took, and the assumptions in your design.**

**3. Testbench Outputs:**

**a. part I**

**b. part II**

**4. Truth Table**

**5. Karnaugh Maps and Output equations**

**6. Contribution of each team member**

**Jiaqi Zhang:**

**Haoyuan Duan:**