Week 7 - Week 5:

**Unit 7 - Week 5 : Unit 5**

**Week 7 Assignment 5**

**Objective:**

- Design and implement a 4-bit register file with 4 registers, where each register can store 8-bit values. The register file should support read and write operations.

**Instruction:**

- Implement a 4-bit register file with 4 registers, where each register can store 8-bit values. The register file should support read and write operations.

**Materials:**

- 4-bit register file
- 8-bit values
- Read/write operations

**Questions:**

1. A 4-bit register file is designed to store 4-bit values. If the data of a 4-bit register file is 0101, which of the following represents the correct sum of the 4-bit values?
   - a. 5
   - b. 13
   - c. 17
   - d. 21

2. A 4-bit register file is designed to store 4-bit values. If the data of a 4-bit register file is 0101, which of the following represents the correct sum of the 4-bit values?
   - a. 5
   - b. 13
   - c. 17
   - d. 21

3. A 4-bit register file is designed to store 4-bit values. If the data of a 4-bit register file is 0101, which of the following represents the correct sum of the 4-bit values?
   - a. 5
   - b. 13
   - c. 17
   - d. 21

4. A 4-bit register file is designed to store 4-bit values. If the data of a 4-bit register file is 0101, which of the following represents the correct sum of the 4-bit values?
   - a. 5
   - b. 13
   - c. 17
   - d. 21

5. A 4-bit register file is designed to store 4-bit values. If the data of a 4-bit register file is 0101, which of the following represents the correct sum of the 4-bit values?
   - a. 5
   - b. 13
   - c. 17
   - d. 21

6. A 4-bit register file is designed to store 4-bit values. If the data of a 4-bit register file is 0101, which of the following represents the correct sum of the 4-bit values?
   - a. 5
   - b. 13
   - c. 17
   - d. 21

7. A 4-bit register file is designed to store 4-bit values. If the data of a 4-bit register file is 0101, which of the following represents the correct sum of the 4-bit values?
   - a. 5
   - b. 13
   - c. 17
   - d. 21

8. A 4-bit register file is designed to store 4-bit values. If the data of a 4-bit register file is 0101, which of the following represents the correct sum of the 4-bit values?
   - a. 5
   - b. 13
   - c. 17
   - d. 21

9. A 4-bit register file is designed to store 4-bit values. If the data of a 4-bit register file is 0101, which of the following represents the correct sum of the 4-bit values?
   - a. 5
   - b. 13
   - c. 17
   - d. 21

10. A 4-bit register file is designed to store 4-bit values. If the data of a 4-bit register file is 0101, which of the following represents the correct sum of the 4-bit values?
    - a. 5
    - b. 13
    - c. 17
    - d. 21