Experiments in Microprocessor Lab

Time: 2 weeks. **Problem Sheet #1**

1. Load the contents of the memory locations 2200_H and 2201_H into registers. Add these registers and store the result in memory locations 2202_H and 2203_H.
2. Repeat 1 for BCD numbers.
3. Find the sum of N numbers stored in consecutive locations starting from 2500_H. The value of N is stored in 2200_H. Store the result in locations 2300_H and 2301_H.
4. Repeat 3 for BCD numbers.
5. Find the sum of the least significant 4 bits and most significant 4 bits of a byte stored in memory location 2500_H. Store the result in 2550_H.
6. Repeat 5 for a BCD number.
7. Write a program to count the '1's and '0's of a byte stored in 2500_H. Store the result in 2610_H and 2511_H, respectively.
8. Write a program to sum two 16-bits binary numbers.
9. Repeat 8 for BCD numbers.