Experiments in Microprocessor Lab

Time: 2 weeks. **Problem Sheet #3**

1. A set of *N* data bytes is stored in m/m locations starting from 2501_H. The value of *N* is stored in 2500_H. Write a program to store these data bytes from m/m location 2600_H if D_0 or D_7 is 1; otherwise reject the data byte.

2. There are *N* data bytes stored from m/m location 2200_H. The value of *N* is stored in $21FF_H$. Write an 8085 program to find the sum of integers whose LSB and MSB are 1. Store the result in 2500_H and 2501_H.

3. Write an 8085 program to generate N^{th} fibonacci number using function and store it in 2050_H. The value of *N* (8-bits) is stored in memory 2060_H.

4. Write a program to transfer a block of bytes of size *N* from location1 to location2 (location2 > location1) when the size of overlap between the two locations is defined by *M*. The values of *N* and *M* are stored in $201E_H$ and $201F_H$, respectively.

5. Write a program to flash "**BCSE II**" in the address and data fields with a flashing rate of 0.5 seconds.