BCSE 2nd Year 2nd Semester

Experiments in Microprocessor Lab

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

1. Two numbers MN_H and KL_H are stored in 2050_H and 2051_H, respectively. Write a program to assemble them as NK_H and LM_H store them in 2052_H and 2053_H.
2. Two numbers A & B are stored in 2050_H and 2051_H, respectively. Write a program to perform A×B and store the result in 2052_H and 2053_H.
3. *N* numbers are stored in consecutive m/m location starting from 2050_H. The value *N* is stored in $204F_H$.
   i) Find the maximum among the *N* numbers.
   ii) Find the minimum among the *N* numbers.
   iii) Sort the *N* numbers in ascending order.
   iv) Sort the *N* numbers in descending order.
4. *N* numbers are stored in consecutive m/m location starting from 2050_H. The value *N* is stored in $204F_H$. Write a program to copy the even and odd numbers starting from 2100_H and 2200_H, respectively. Store the total no. of even and odd numbers in 2300_H and 2201_H, respectively.
5. *N* numbers are stored in consecutive m/m location starting from 2050_H. The value *N* is stored in $204F_H$. Write a program to test whether a number stored in $204E_H$ is present in the list. If present, store its position in the list at $204D_H$; otherwise store FF_H.