




Experiments in Microprocessor Lab

Time: 2 weeks.

Problem Sheet #2

1. Two numbers EA_H and BD_H are stored in 2050_H and 2051_H , respectively. Write a program to assemble them as AB_H and store it in 2052_H .
2. Two numbers A & B are stored in 2050_H and 2051_H , respectively. Write a program to perform $A \times B$ and store the result in 2052_H and 2053_H .
-  Repeat 2 for a BCD number.
4. 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.
 -  i) Sort the N numbers in ascending order.
 -  i) Sort the N numbers in descending order.
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 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.
6. 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 .