LAB-7

AIM: DEMONSTRATE THE USE OF LOOPING, COMPARISON, AND BRANCHING INSTRUCTIONS IN 8085 ASSEMBLY LANGUAGE TO MANIPULATE DATA AND PERFORM MATHEMATICAL OPERATIONS.

1. Write an 8085 assembly language program to find the largest number in an array of data.

INPUT:

(2201H) = 08 (Array Size)

(2202H) = 45

(2203H) = 67

(2204H) = 15

(2205H) = 07

(2206H) = FE

(2207H) = 78

(2208H) = 21

(2209H) = 63

OUTPUT:

(220AH) = FE

2. Write an 8085 assembly language program to find the smallest number in an array of data. INPUT: (Take the above data). OUTPUT: (220AH) = 07

3. Write an 8085 assembly language program to sort the data in ascending order.

Data(H): 63, 41, 56, 62, 48, 5A, 4F, 4C, 56, 56

4. Write an 8085 assembly language program to sort an array containing the set of marks scored by 10 students in a Computer system course in descending order.

Data(H): Take the above data

5. The following block of Data is stored starting from the memory location XX50H to XX5AH. Write an 8085 Assembly Language Program to transfer the data to a new location XX00H to XX05H in reverse order.

DATA(H): 22,A5,B2,99,7F,37