

Evaluator's Signature:



LAB REPORT COVER PAGE

Lab No:	
Student ID:	23081055
Student Name:	Sudia Bhomjan
Initial Submission Date:	August 4
Final Submission Date:	••••••
Course Name:	Microprocessor
Course Code:	CSC167
Semester:	2 nd
Instructor/Examiner/Lecture:	Bhuwan Acharya
Evaluator's Comment:	A DAY

Objectives :-

- -> To demonstrate the basic understanding of assembly language programming using the 8085 microprocessor simulator.
- memory locations and data movement within memory
- Ito observe the changes in various flags during data movement.

write a small program to enter data to all umulator and more it to all registers.

MOV A, M MOV, B, A MOV C, A MOV D, A MOV E, A MOV L, A HLT

write a program to exchange the content of memory location 1000 H and 2000H

LDA 2200H MOV B, A LDA 2701H STA 2700H MOV A, B STA 2201H HLT WAP to more 4 bytes of data from starting from 22004 to 22044 using simulator and observe the value of different flags.

LXI H, 2700H

MVI D, D4H

LXI B, 2704H

J1: MOV A, M

STAX B

INX H

INH B

DCR D

JNZ J1

HIT

Zeroflag(z): The zero flag will be affected based on the data being moved. If the accumulator (A) contains a zero after the mov A, m instruction, the zero flag will be set(1); otherwise it will be cleared (0).

sign flag(s): The sign flag will be affected based on the most significant bit (bit 7) of the data in the accumulator (A) after the mov A, M instruction. If bit 7 is set(1), indicating 1 negative result, the sign flag will be set(1); otherwise, it will be cleared (0).

Parity Flag (P): The parity flag will be affected based on the data in the accumulator (A) after the mov A, m instruction. It the accumulator contains an even number of 1 bit, the Parity Falg will be set(1); otherwise, it will be cleared (0).

Conclusion: -

Through these lab exercises, we have achieved the objectives of learning basic assembly language programming for the 8085 microprocessor simulator. we sullessfully exchanged data between two memory locations, Moved data within memory and observed the changes in different flags during data morement. These exercises have provided a hands-on experience with the 8085 Milroprocessor simulator, helping to reinforce the understanding of fundamental concepts of assembly language programming. Stitut data ?

same nent

for condition?

you repeat