2021bcs0175

Hazarathayya

MICROPROCESSORS

LAB 2

Q1.

S.No.	Quest	ion				
1.		•	set of 3 n ALP for 808!		descending	
		310F	3110	3111	3112	
		03	1 A	3 E	02	

Solution:

Code:

MVI D, o3H

LOOP1: LXI H, 310fH

MOV B, M

DCR B

INX H

LOOP2: MOV A, M

INX H

CMP M

JNC FORWARD

MOV C, M

MOV M, A

DCX H

MOV M, C

INX H

FORWARD:DCR B

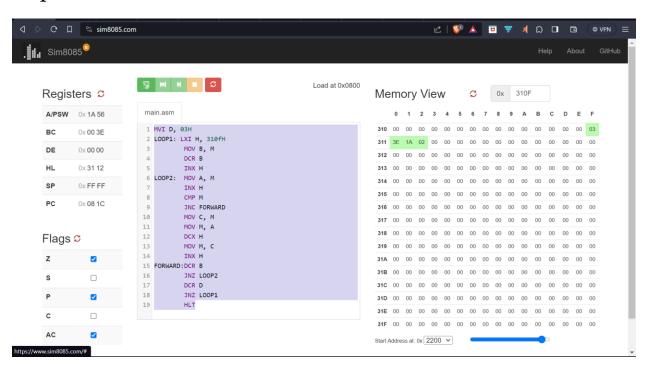
JNZ LOOP2

DCR D

JNZ LOOP1

HLT

Ouput:



y. Hogorath

20218020125

problem: Sorting of these numbers using ALP of soss

1. Load the content of the memory into the register

De Question? Sort the given I number in descending order wing

ALP for 8085 MP

310F 3110 311 03 1A 3E 02

Solutionis

Algoi.

1. Take a counter-1 and intains with rength of oney (n)

2. Take counter -2 and intellife with

3. decrement counter_2 each when we chelle the first cosecutive memory address's data and swap is eyos

4. Decrement counter-1 each time counter-2 ==0.

gatilaise the counter_2 to counter_1.

5. Then pepear the steps until country I equal zero.

0,034 NVI

H, 310F LOOP 1: LXI

B, M nor

OCB 3

INX

A, M 100 P2 MOV

INX 81

(weary 1st 5549)

FORMARD: OCR B

MOV A,M

MOV M, (

TORMARD: OCR B

JN2 LOOP 2

DIN2 LOOP 1

NLT

22/01/24.

19