DESCENDING ORDER

EXP NO: 12

AIM: To compute descending order of an array using 8085 processor.

ALGORITHM:

1) Initialize HL pair as memory pointer.

2) Get the count at memory and load it into C register

3) Copy it in D register (for bubble sort (N-1)) times required.

4) Get the first value in A register.

5) Compare it with the value at next location.

6) If they are out of order, exchange the contents of A register and memory.

7) Decrement D register content by 1.

8) Repeat step 5 and 7 till the value in D register become zero.

9) Decrement the C register content by 1.

10) Repeat steps 3 to 9 till the value in C register becomes zero.

PROGRAM:

LOOP: LXI H,3500

MVI D,00

MVI C,05

LOOP1: MOV A,M

INX H

CMP M

JNC LOOP2

MOV B,M

MOV M,A

DCX H

MOV M,B

INX H

MVI D,01

LOOP2: DCR C

JNZ LOOP1

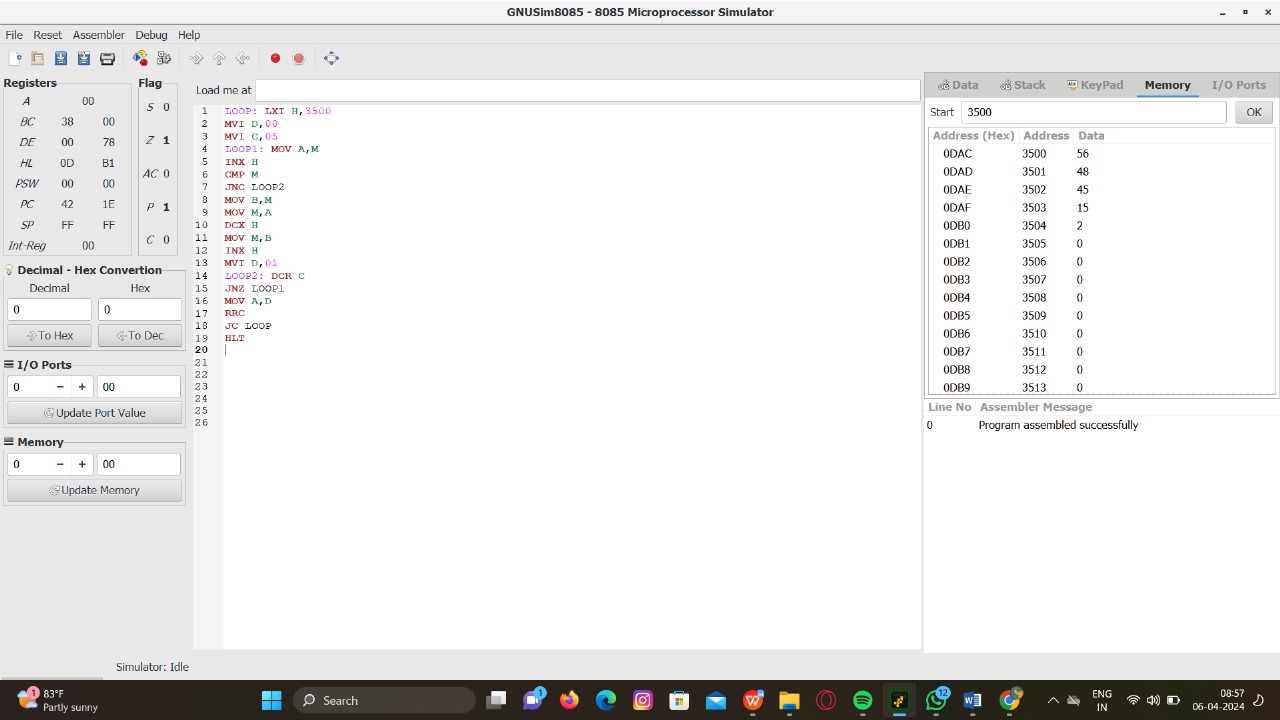
MOV A,D

RRC

JC LOOP

HLT

INPUT & OUTPUT



RESULT: Thus the program was executed successfully using 8085 processor simulator.

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