## ASCENDING ORDER

EXP NO	D: 12
	npute ascending order of an array 1085 processor.
ALGOR	ITHM:
1)	Initialize HL pair as memory pointer.
2)	Get the count at memory and load it into C register
3) require	Copy it in D register (for bubble sort (N-1)) times d).
4)	Get the first value in A register.
5)	Compare it with the value at next location.
6) and me	If they are out of order, exchange the contents of A register emory.

Decrement D register content by 1

7)

8)	Repeat step 5 and 7 till the value in D register become zero.		
9)	Decrement the C register content by 1.		
10) Re zero.	peat steps 3 to 9 till the value in C register becomes		
PROGR	AAM:		
LOOP: I	LXI H,3500		
MVI D,0	00		
MVI C,(	05		
LOOP1	: MOV A,M		
INX H			
CMP M	I		
JC LOC	DP2		
MOV B	,M		
MOV M	I,A		
DCX H			

MOV M,B

INX H

MVI D,01

LOOP2: DCR C

JNZ LOOP1

MOV A,D

RRC

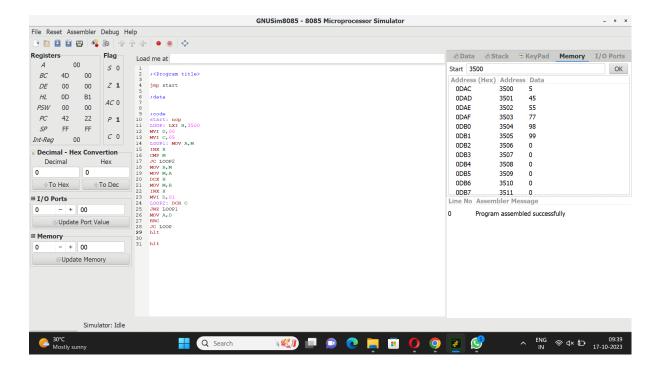
JC LOOP

HLT

## INPUT:

Address (Hex)	Address	Data
0DAC	3500	5
0DAD	3501	55
0DAE	3502	99
0DAF	3503	45
0DB0	3504	98
0DB1	3505	77

OUTPUT:



**RESULT:** Thus

the program was executed successfully using 8085 processor simulator.