SMALLEST NUMBER IN AN ARRAY

EXP NO: 11	
AIM: To find the smallest number from an array using 8085 processor.	
ALGORITHM:	
1)	Load the address of the first element of the array in HL pair.
2)	Move the count to B register.
3)	Increment the pointer.
4)	Get the first data in A register.
5)	Decrement the count.
6)	Increment the pointer.
7)	Compare the content of memory addressed by HL pair with that of A register.
8)	If carry=1, go to step 10 or if carry=0 go to step 9
9)	Move the content of memory addressed by HL to A register.
10)	Decrement the count.
PROGRAM:	
LXI H,2050	
MOV C,M	
DCR C	
INX H	
MOV A,M	
LOOP1: INX H	
CMP M	
JC LOOP	

MOV A,M

LOOP: DCR C

JNZ LOOP1

STA 2058

HLT

INPUT:

0

0

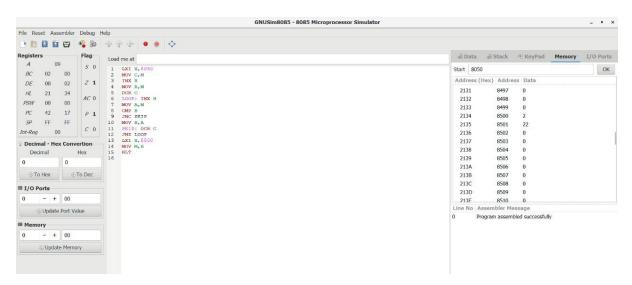
0

2

22

0

OUTPUT:



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