SMALLEST NUMBER IN AN ARRAY

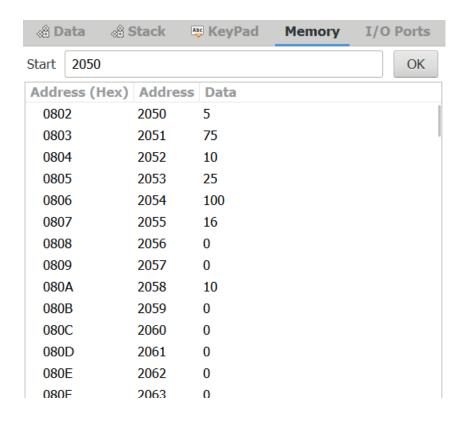
EXP NO: 11 AIM: To find the smallest number from an array using 8085 processor.					
ALGORITHM:					
1)	Load the address of the first element of the array in HL pair.				
2)	Move the count to B register.				
3)	Increment the pointer.				
4)	Get the first data in A register.				
5)	Decrement the count.				
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					

CMP M		
JC LOOP		
MOV A,M		
LOOP: DCR C		
JNZ LOOP1		
STA 2058		
HLT		
INPUT:		

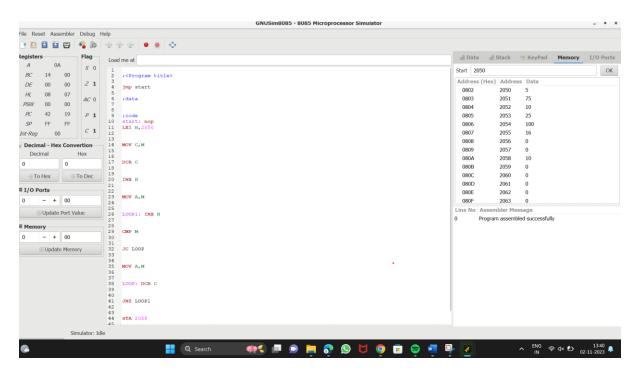
INX H

MOV A,M

LOOP1: INX H



OUTPUT:



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