SMALLEST NUMBER IN AN ARRAY

10) Decrement the count.

EXP NO: 11				
AIM: To find the smallest number from an array using an 8085 processor.				
ALGORITHM:				
1) pair.	Load the address of the first element of the array in HL			
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) of A reg	Compare the content of memory addressed by HL pair with that gister.			
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.			

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		

PROGRAM:

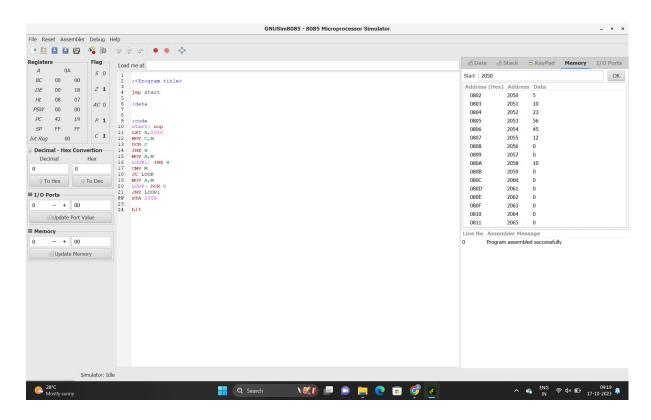
LXI H,2050

MOV C,M

INPUT:

0802	2050	5
0803	2051	10
0804	2052	23
0805	2053	56
0806	2054	45
0807	2055	12

OUTPUT:



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