EXP NO: 11

	AIM: To find the smallest number from an array using 8085 processor.					
ALGOR	RITHM:					
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 re	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.					

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	

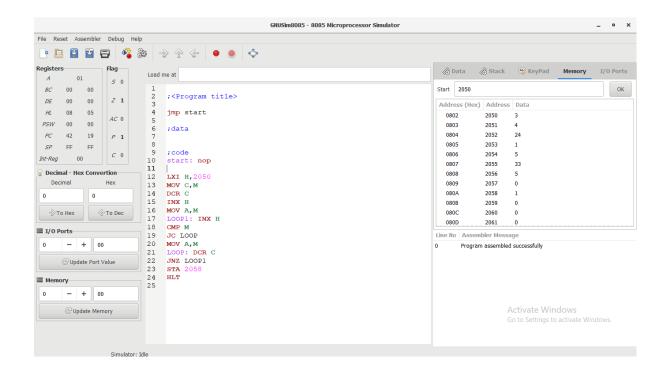
10) Decrement the count.

PROGRAM:

INPUT:

ුලි Data ු	Stack	Æ KeyPad	Memory	I/O Ports
Start 2050				ОК
Address (Hex)	Address	Data		
0802	2050	3		
0803	2051	4		
0804	2052	24		
0805	2053	1		
0806	2054	5		
0807	2055	33		
0808	2056	5		
0809	2057	0		
080A	2058	1		
080B	2059	0		
080C	2060	0		
080D	2061	0		

OUTPUT:



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