SMALLEST NUMBER IN AN ARRAY

EXP N	0: 11			
AIM: To find the smallest number from an array using 8085 processor.				
ALGOF	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	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

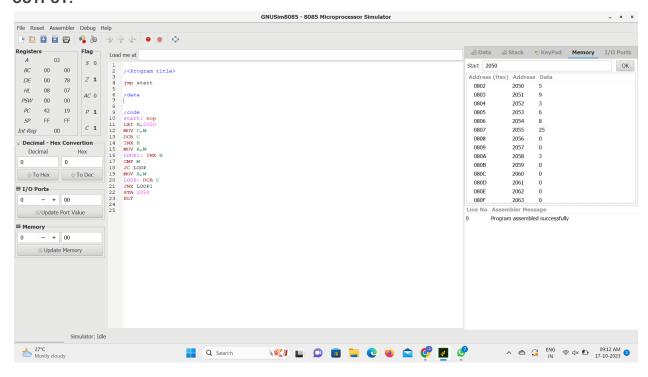
HLT

INPUT:

Start 2050

Address (Hex)	Address	Data		
0802	2050	5		
0803	2051	9		
0804	2052	3		
0805	2053	6		
0806	2054	8		
0807	2055	25		

OUTPUT:



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