EXP NO: 11							
AIM: To find the smallest number from an array using 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 jister.						
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,	М						
L00P1:	INX H						
CMP M							
JC LOOP							

MOV A,M

LOOP: DCR C

JNZ LOOP1

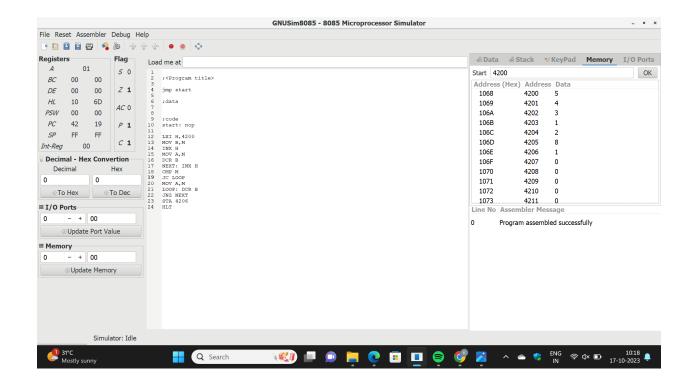
STA 2058

HLT

## INPUT:

🕸 Data	& Stack	KeyPad	Memory	I/O Ports
Start 4200	)			ОК
Address (	Hex) Address	Data		
1068	4200	5		
1069	4201	4		
106A	4202	3		
106B	4203	1		
106C	4204	2		
106D	4205	8		
106E	4206	1		
106F	4207	0		
1				

## OUTPUT:



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