AIM: To find the smallest number from an array using 8085 processor.			
ALGOR	ІТНМ:		
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.		
10) De	crement the count.		

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		

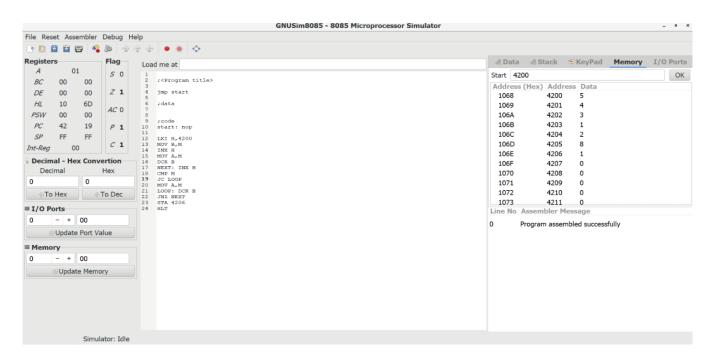
PROGRAM:

LXI H,2050

INPUT:

& Data	& Stack	№ KeyPad	Memory	I/O Ports
Start 4200)			OK
Address (Hex) Addre	ss 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		

OUTPUT:



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