MOV A,M

	SMALLEST NUMBER IN AN ARRAY		
	EXP NO: 11 AIM: To find the smallest number from an array using 8085 processor.		
ALGORITHM:			
	1)	Load the address of the first element of the array in HL pair.	
	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)	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 I	H,2050	
	MOV C,M		
	DCR	CR C	
	INX	INX H	
	MO	MOV A,M	
	LOO	LOOP1: INX H	
	CMF	CMP M	
	JC L	OOP	

LOOP: DCR C

JNZ LOOP1

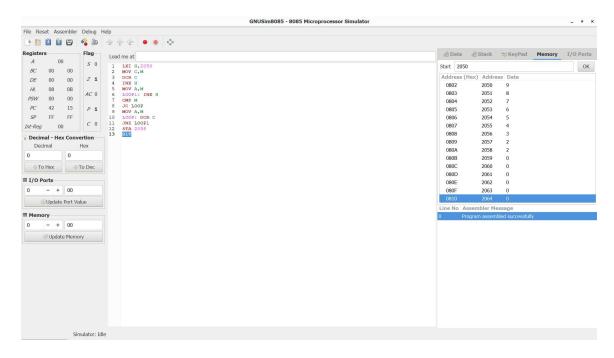
STA 2058

HLT

INPUT:



OUTPUT



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