## ADDITION OF N NUMBERS

EXP NO: 14		
<b>AIM:</b> To compute addition of N numbers using 8085 processor.		
ALGOR	ІТНМ:	
1)	Load the base address of the array in HL register pair.	
2)	Load the memory with data to be added.	
3)	Take it as count.	
4)	Initialize the accumulator with 00.	
5)	Add content of accumulator with content of memory.	
6)	Decrement count.	
7)	Load count value to memory location.	

8)	Repeat step 5.	
9)	Check whether count has become 0.	
10) Halt.		
PROGRAM:		
LXI H,8000		
	MOV C,M	
	XRA A	
	MOV B,A	
LOOP: INX H		
	ADD M	
	JNC SKIP	
	INR B	
SKIP: DCR C		
	JNZ LOOP	

INX H

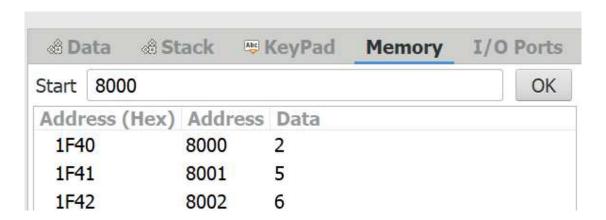
MOV M,A

INX H

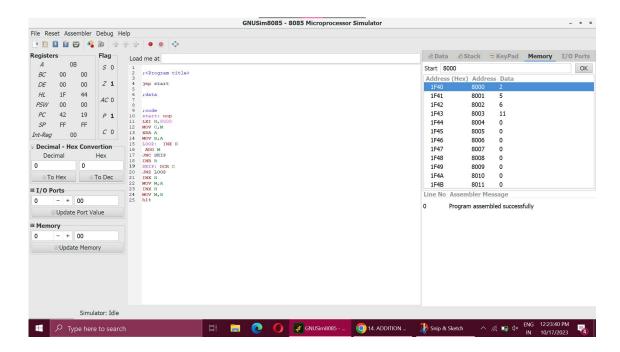
MOV M,B

 $\mathsf{HLT}$ 

## **INPUT:**



## **OUTPUT**:



**RESULT:** Thus

the program was executed successfully using 8085 processor simulator.