## ADDITION OF N NUMBERS

EXP NO: 14				
AIM: To compute addition of N numbers using 8085 processor.				
ALGORITHM:				
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.				
PROGR	AM:			
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

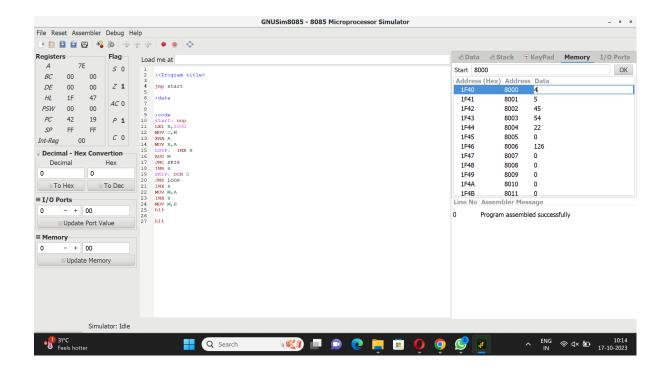
MOV M,B

HLT

## INPUT:

Address (Hex)	Address	Data
1F40	8000	4
1F41	8001	5
1F42	8002	45
1F43	8003	54
1F44	8004	22

OUTPUT:



**RESULT:** Thus

the program was executed successfully using 8085 processor simulator.