### **ADDITION OF N NUMBERS**

## **EXP NO: 14**

**AIM:** To compute addition of N numbers using the 8085 processor.

# ALGORITHM:

- 1) Load the base address of the array in the HL register pair.
- 2) Load the memory with data to be added.
- 3) Take it as a count.
- 4) Initialise the accumulator with 00.
- 5) Add the content of the accumulator with the content of memory.
- 6) Decrement count.
- 7) Load count value to memory location.
- 8) Repeat step 5.
- 9) Check whether the 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

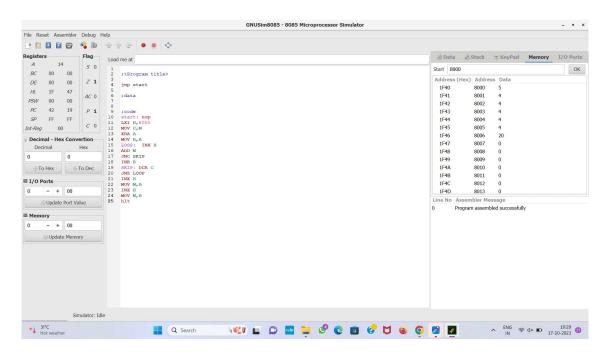
INX H

HLT

# **INPUT:**



### **OUTPUT:**



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