## **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.

## 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

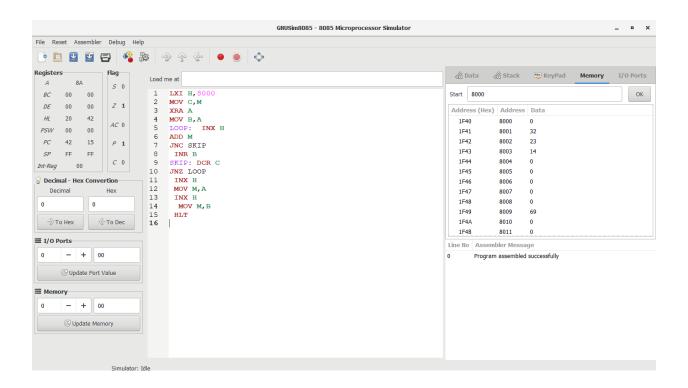
INX H

MOV M,B

HLT

## **INPUT & OUTPUT**





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