

## SQUARE OF NUMBER

**EXP NO: 16**

**AIM:** To compute square of number using 8085 processor.

**ALGORITHM:**

- 1) Load the base address of the array in the HL register pair.
- 2) Assign accumulator as 0.
- 3) Load the content of the memory location specified into the register.
- 4) Add content of memory location with accumulator and decrement register content by 01.
- 5) Check if the register holds 00, if so store the value of the accumulator in memory location.

**PROGRAM:**

LXI H,8000

XRA A

MOV B,M

LOOP: ADD M

DCR B

JNZ LOOP

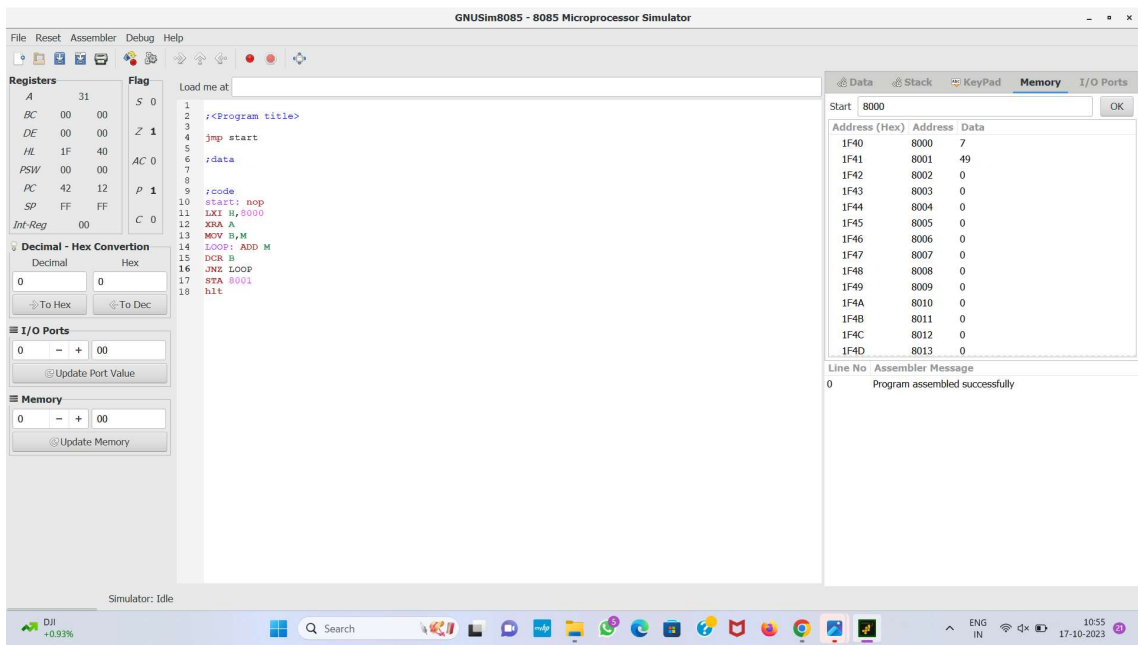
STA 8001

HLT

**INPUT:**

Start	<input type="text" value="8000"/>	<input type="button" value="OK"/>
Address (Hex)	Address	Data
1F40	8000	7

OUTPUT:



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