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

PROGRAM:

LXI H,8000

XRA A

MOV B,M

LOOP: ADD M

DCR B

JNZ LOOP

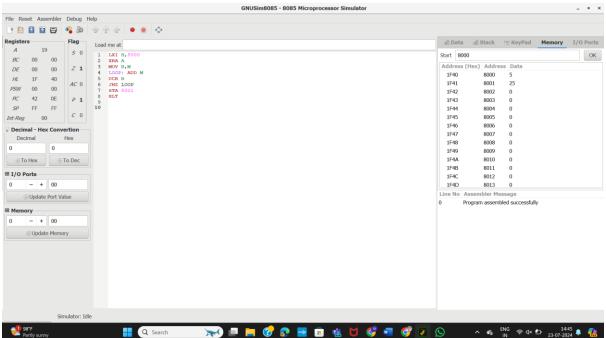
STA 8001

HLT

INPUT

Address (Hex)	Address	Data	
1F40	8000	5	

OUTPUT:



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