FACTORIAL OF A GIVEN NUMBER

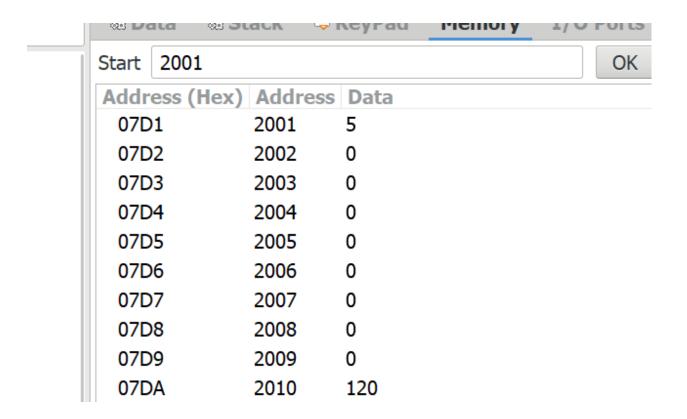
EXP NO: 9
AIM: To find the factorial of a given number using 8085 microprocessor.
ALGORITHM:
1) Load the data into register B
2) To start multiplication set D to 01H
3) Jump to step 7
4) Decrements B to multiply previous number
5) Jump to step 3 till value of B>0

6) Take memory pointer to next location and store result
7) Load E with contents of B and clear accumulator
8) Repeatedly add contents of D to accumulator E times
9) Store accumulator content to D
10) Go to step 4
PROGRAM:
LDA 2001
MOV B,A
MVI C,01H
MVI E,01H
LOOP: MOV D,C
MVI A,00H

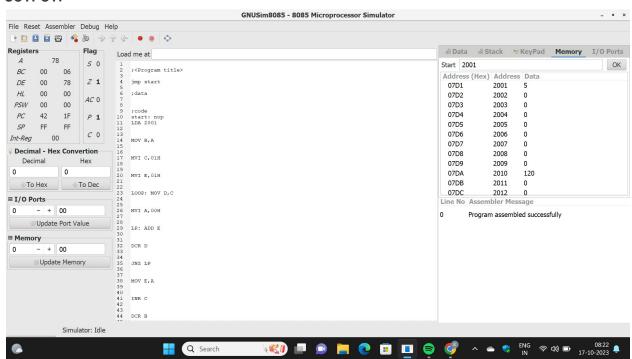
JNZ LP			
MOV E,A			
INR C			
DCR B			
JNZ LOOP			
MOV A,E			
STA 2010			
HLT			
INPUT:			

LP: ADD E

DCR D



OUTPUT:



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