## **Experiment No. 3**

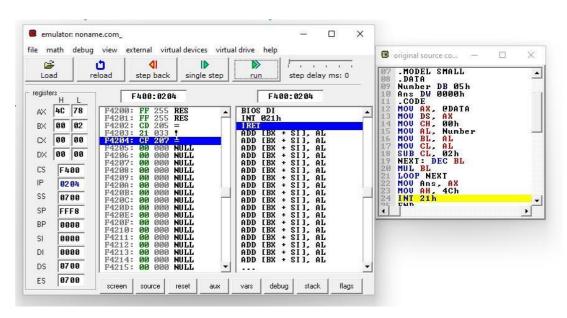
Aim: Write an ALP for 8086 to find the factorial of a number.

Software: 8086 Emulator

## **Program:**

```
org 100h
       .MODEL SMALL
08 .DATA
09 Number DB 051
10 Ans DW 0000h
11 .CODE
                        DB 05h
       MOU
                          PDATA
       MOU
               DS.
                          AX
00h
               AL.
BL
       MOU
                          Number
                         AL
AL
02h
       MOU
      MOU BL, AL
MOU CL, AL
SUB CL, O2h
NEXT: DEC BL
MUL BL
LOOP NEXT
MOU Ans, AX
MOU AH, 4Ch
INT 21h
END
24
25
26
27
28
      ret
30
```

## **Output:**



**Conclusion:** Thus, we have successfully implemented an ALP for 8086 to find the factorial of a number.