Experiment 2
Class: SE Comp
Year: 2020-21
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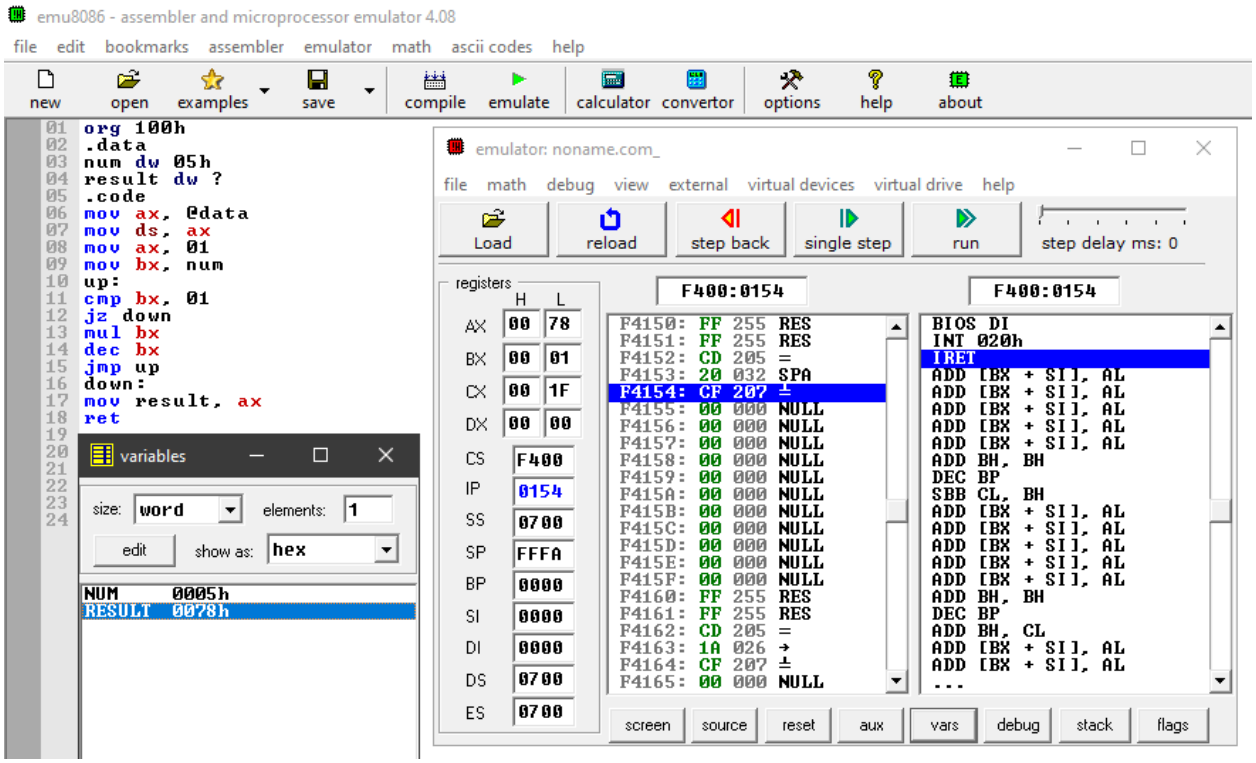
Factorial of a number:

Code:

```
org 100h
.data
     num dw 05h
     result dw ?
.code
     mov ax, @data
     mov ds, ax
     mov ax, 01
     mov bx, num
up:
     cmp bx, 01
     jz down
     mul bx
     dec bx
     jmp up
Down:
     mov result, ax
ret
```

Output:



Conclusion:

We successfully wrote an assembly language program to find the factorial of a number

Exp 02

Aim: To write an assembly language program to find the factorial of a number

Algorithm:

- Start the program
- Initialize the ddta segment
- Shift the number to AX & BX
- Decrement BX & if zero jump to state or else multiply BX with AX
- If BX is not zero jump to start or else state
- State : Shift AX to ans
- Stop

Flowchart: