



LAB Exercise -2

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Slot - L9+L10

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Q2. Factorial of a Number and FibonacciSeries

A2.

Factorial:

Code:

org 100h

.DATA

VARIABLE DD ?

INPUT DD 5

.CODE

MOV AX, @DATA

MOV DS, AX

MOV AX, INPUT

MOV CX, AX

SUB CX,1

MOV BX,AX

SUB BX,1

A:

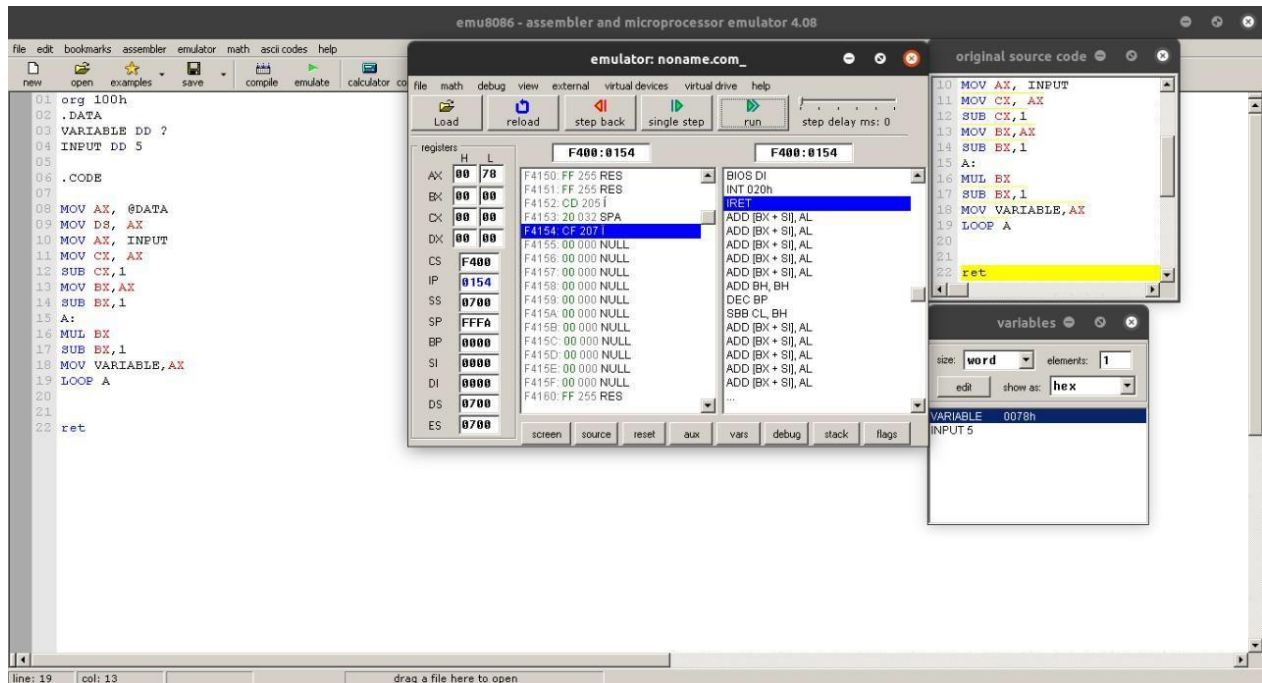
MUL BX

SUB BX,1

MOV VARIABLE,AX LOOP A

ret

Output Screenshot:



Fibonacci:

Code:

.model small

.code

main proc

```
    mov ax,@data  
    mov ds,ax  
    mov si,offset list  
    mov cx,10  
    mov al,0  
    mov [si],al  
    add al,1  
    inc si  
    mov [si],al  
    mov al,0  
back:add al,[si]  
    inc si  
    mov [si],al  
    dec si  
    mov al,[si]  
    inc si  
    loop back  
    mov ah,4ch  
    int 21h  
    main endp
```

.data

```
list db 10 dup(?)  
end
```

Output Screenshot:

