Experiment 8
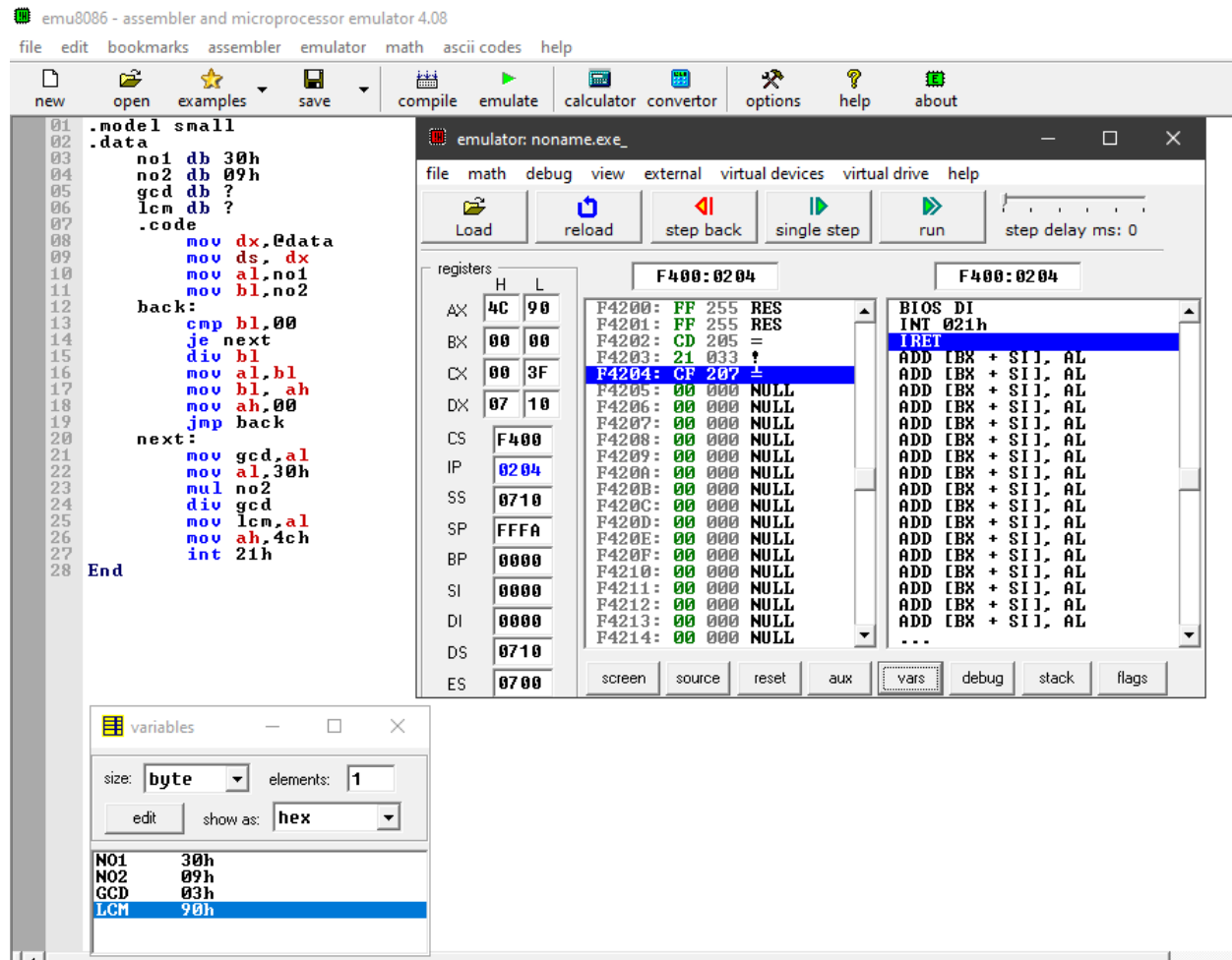**Class:** SE Comp
Year: 2020-21
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Find the GCD / LCM of two numbers:

Code:

```
.model small
.data
    no1 db 30h
    no2 db 09h
    gcd db ?
    lcm db ?
    .code
        mov dx,@data
        mov ds, dx
        mov al,no1
        mov bl,no2
    back:
        cmp bl,00
        je next
        div bl
        mov al,bl
        mov bl, ah
        mov ah,00
        jmp back
    next:
        mov gcd,al
        mov al,30h
        mul no2
        div gcd
        mov lcm,al
        mov ah,4ch
        int 21h
end
```

Output:

Conclusion:

We successfully implemented GCD and LCM calculation of two numbers using assembly language programs

Experiment 08

<u>Aim</u> : To write an assembly language program to find GCD & LCM of two numbers

<u>Software</u> : Emulator 8086

<u>Theory</u> :

Assembler Directives :
.model : used to describe model size which may be small medium or large.