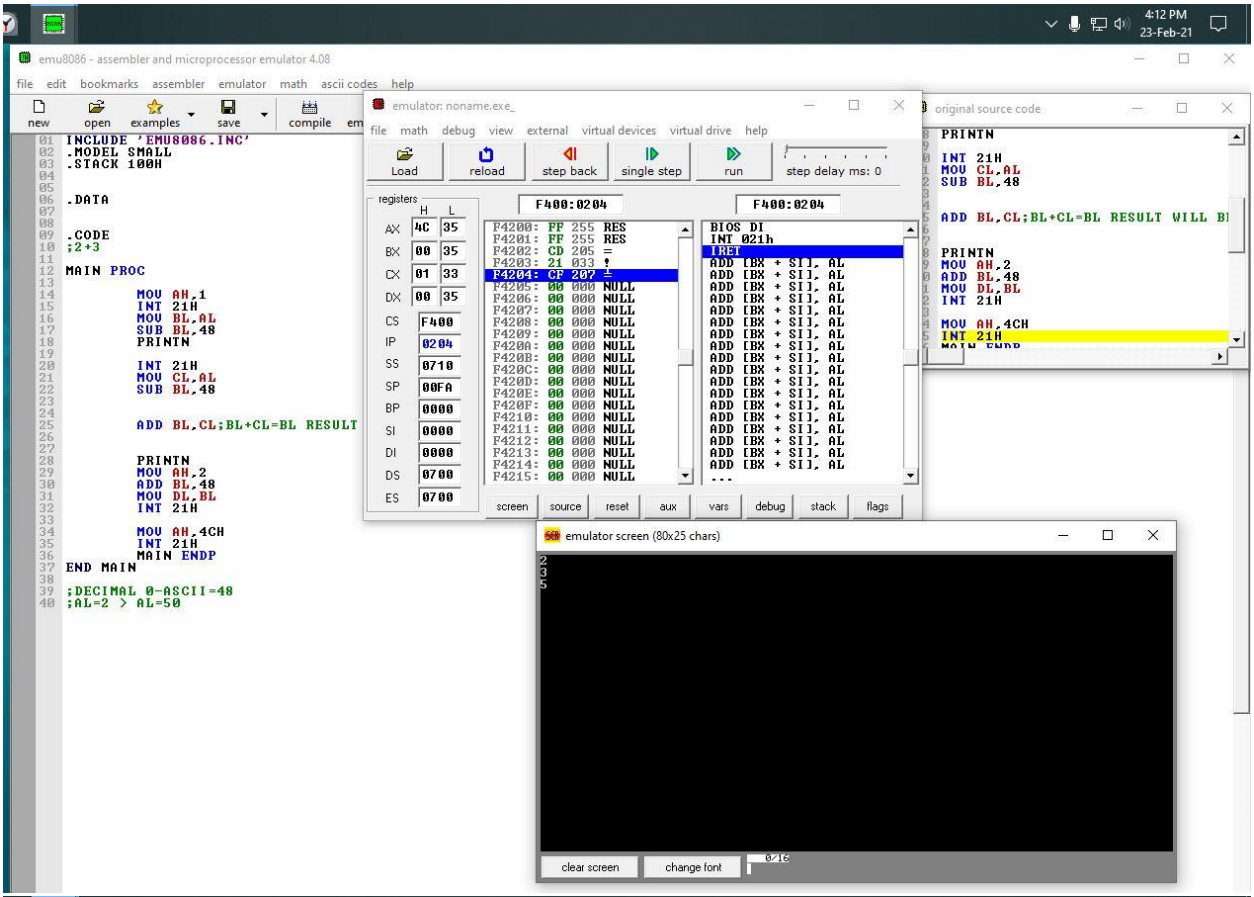
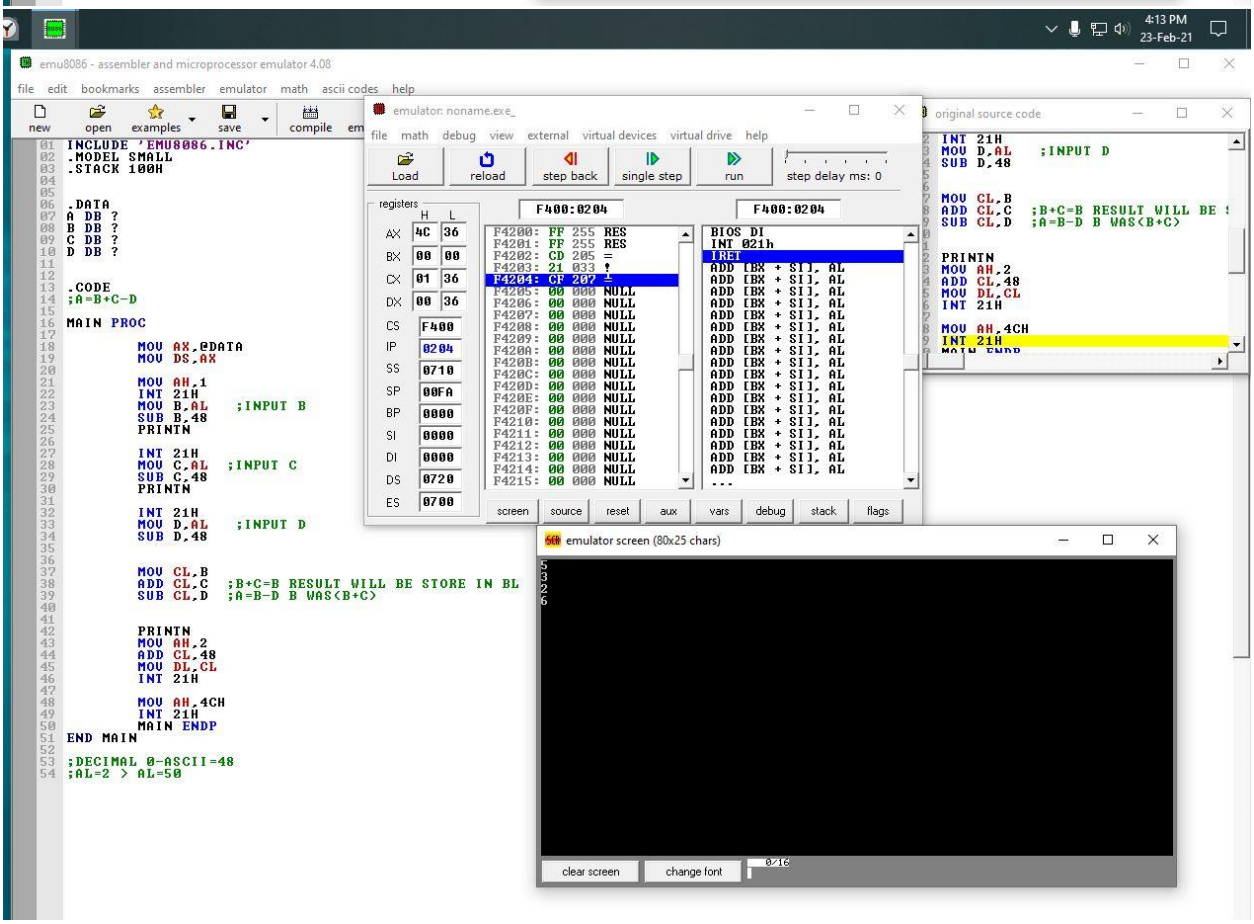
Class Code:



```
INCLUDE 'EMU8086.INC'
.MODEL SMALL
.STACK 100H

.DATA

.CODE
;2+3
MAIN PROC

        MOV AH,1
        INT 21H
        MOV BL,AL
        SUB BL,48
        PRINTN

        INT 21H
        MOV CL,AL
        SUB BL,48

        ADD BL,CL;BL+CL=BL RESULT

        PRINTN
        MOV AH,2
        ADD BL,48
        MOV DL,BL
        INT 21H

        MOV AH,4CH
        INT 21H
        MAIN ENDP
END MAIN

;DECIMAL 0-ASCII=48
;AL=2 > AL=50
```



```
INCLUDE 'EMU8086.INC'
.MODEL SMALL
.STACK 100H

.DATA
A DB ?
B DB ?
C DB ?
D DB ?

.CODE
;A=B+C-D

MAIN PROC

        MOV AX,@DATA
        MOV DS,AX

        MOV AH,1
        INT 21H
        MOV B,AL    ;INPUT B
        SUB B,48
        PRINTN

        INT 21H
        MOV C,AL   ;INPUT C
        SUB C,48
        PRINTN

        INT 21H
        MOV D,AL    ;INPUT D
        SUB D,48


        MOV CL,B
        ADD CL,C   ;B+C=B RESULT WILL BE STORE IN BL
        SUB CL,D   ;A=B-D B WAS(B+C)


        PRINTN
        MOV AH,2
        ADD CL,48
        MOV DL,CL
        INT 21H

        MOV AH,4CH
        INT 21H
        MAIN ENDP
END MAIN

;DECIMAL 0-ASCII=48
;AL=2 > AL=50
```

Lab Task – 03: Write a program to Solve: X=Z+Y Where Y= A-B+C