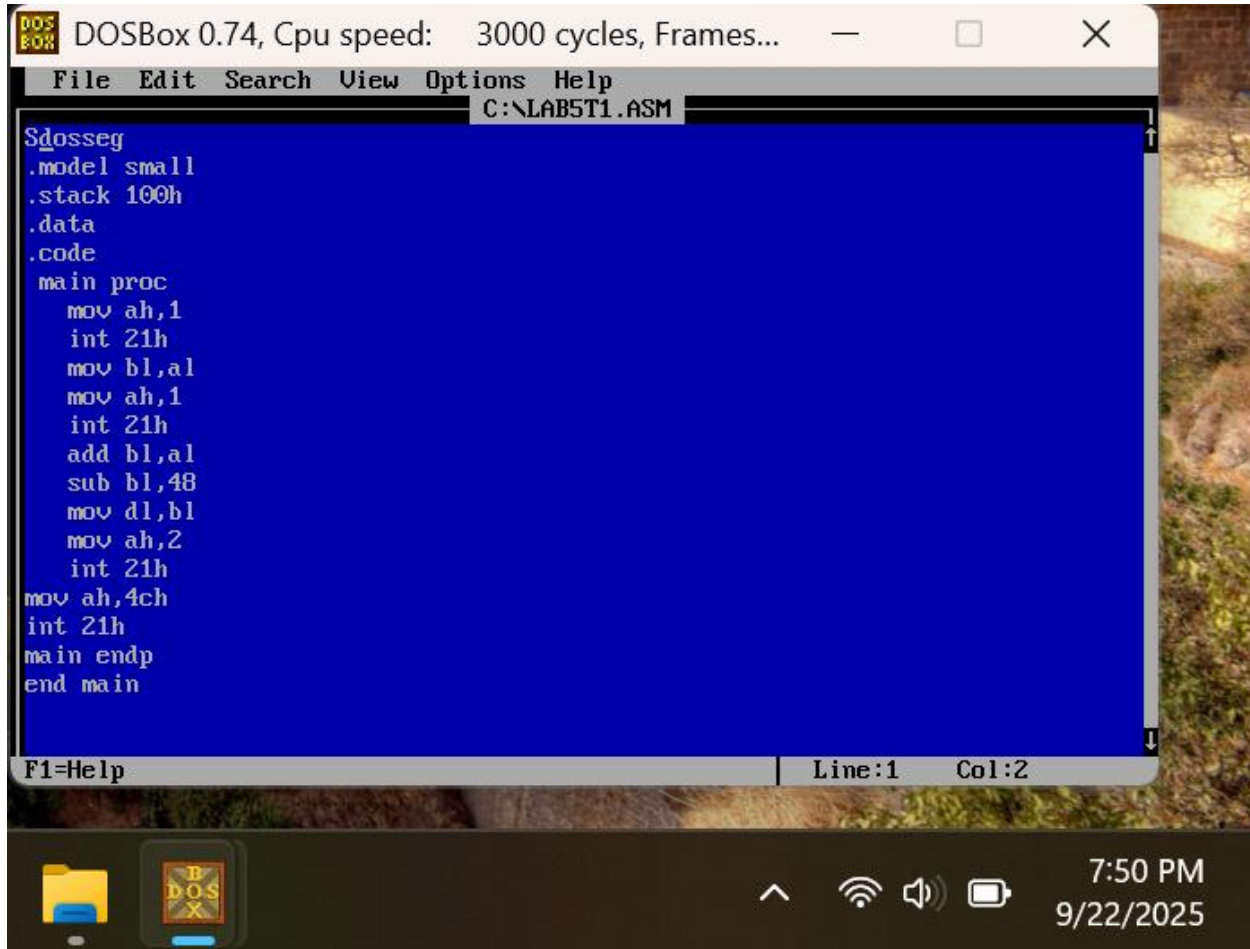


LAB 05 – 67005 – Saghir Ali – COAL – Tasks

TASK 01



DOSBox 0.74, Cpu speed: 3000 cycles, Frames...

File Edit Search View Options Help

C:\LAB5T1.ASM

```
Sdosseg
.model small
.stack 100h
.data
.code
main proc
    mov ah,1
    int 21h
    mov bl,al
    mov ah,1
    int 21h
    add bl,al
    sub bl,48
    mov dl,bl
    mov ah,2
    int 21h
    mov ah,4ch
    int 21h
main endp
end main
```

F1=Help | Line:1 Col:2

7:50 PM
9/22/2025



DOSBox 0.74, Cpu speed: 3000 cycles, Frames... —

C:\>edit LAB5T1.asm

C:\>masm LAB5T1.asm;

Microsoft (R) Macro Assembler Version 5.00

Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51700 + 464844 Bytes symbol space free

0 Warning Errors

0 Severe Errors

C:\>linkLAB5T1.obj;

Illegal command: linkLAB5T1.obj;.

C:\>link LAB5T1.obj;

Microsoft (R) Overlay Linker Version 3.60

Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

C:\>LAB5T1.exe

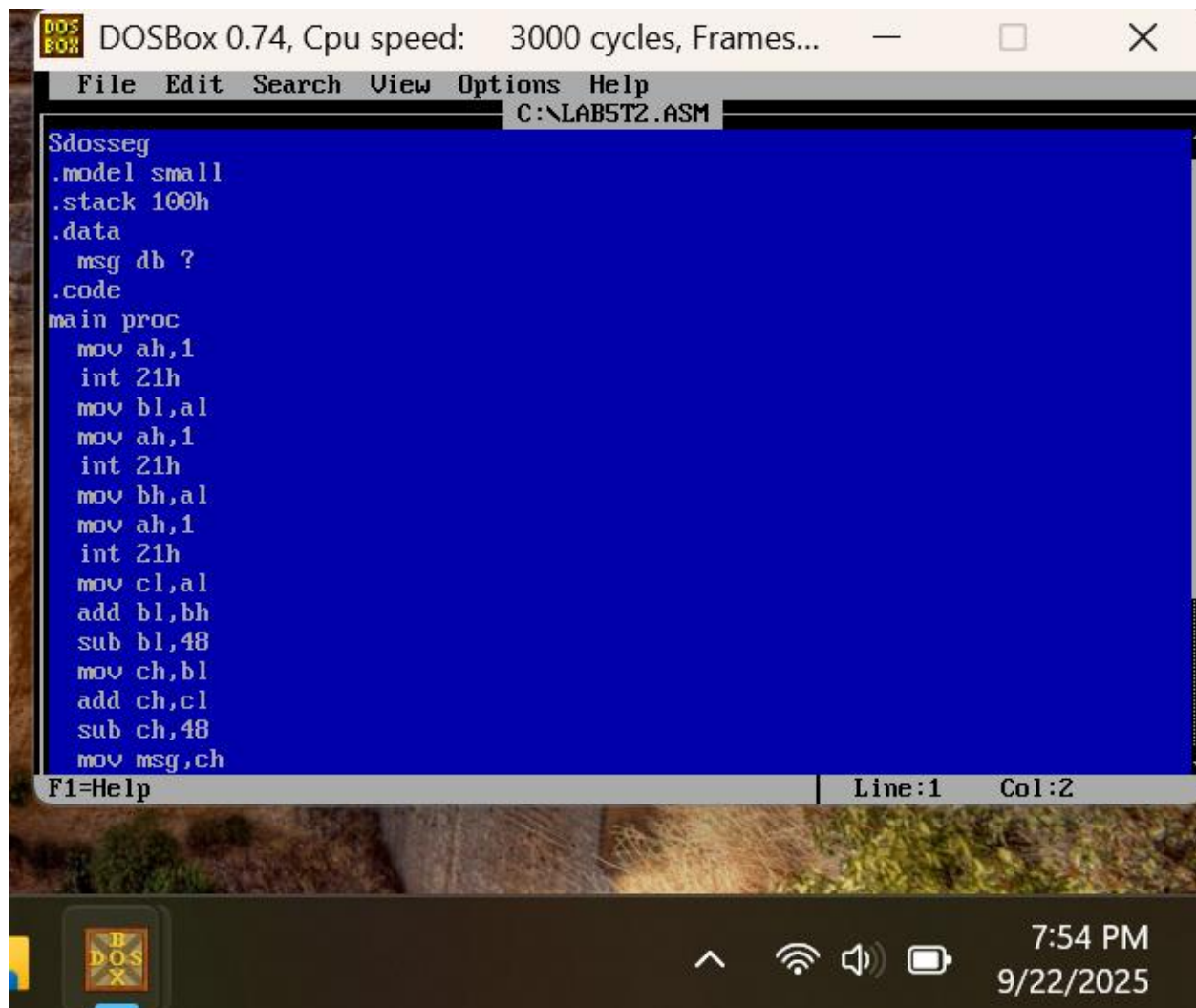
123

C:\>d



7:53 PM
9/22/2025

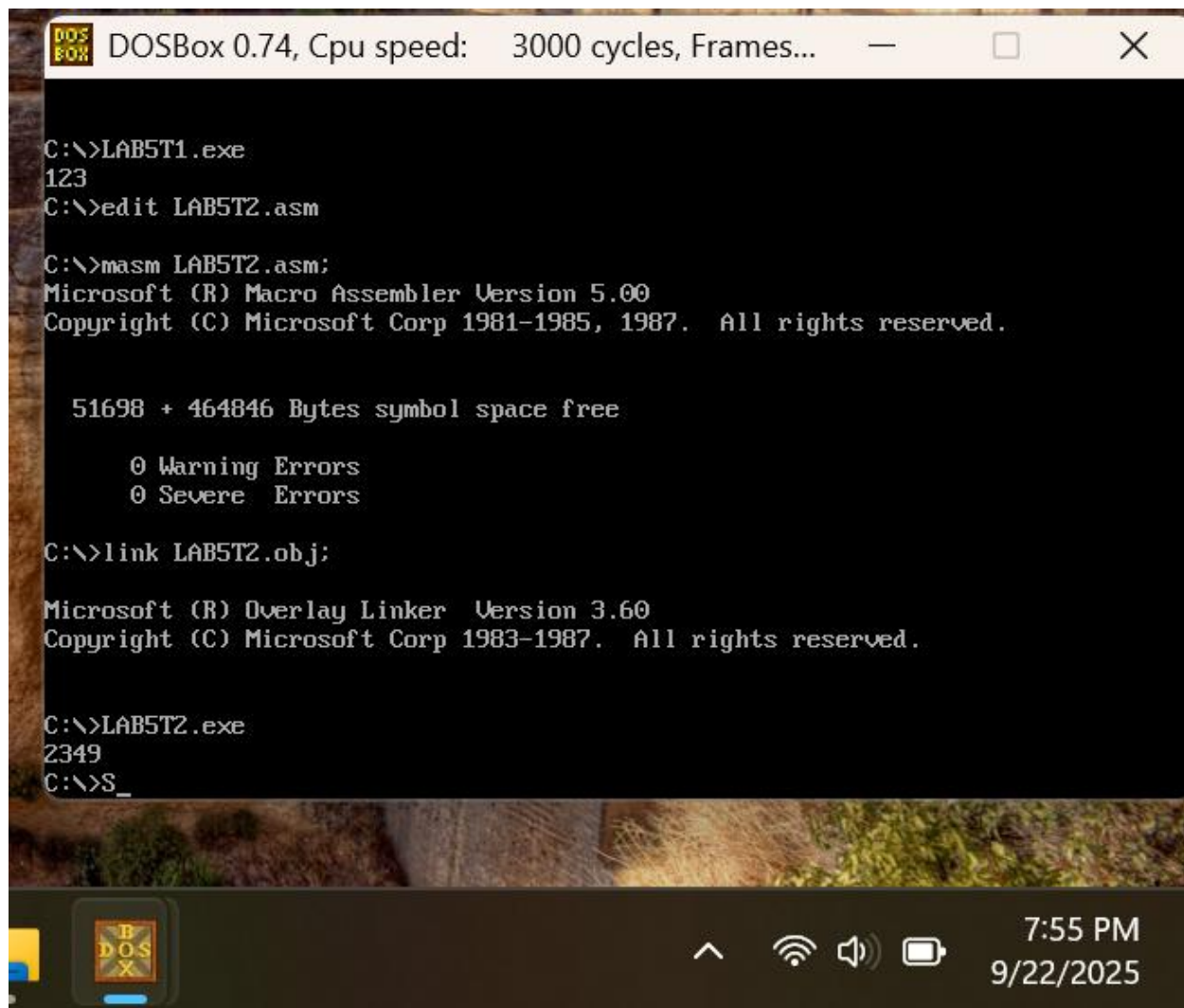
TASK 2



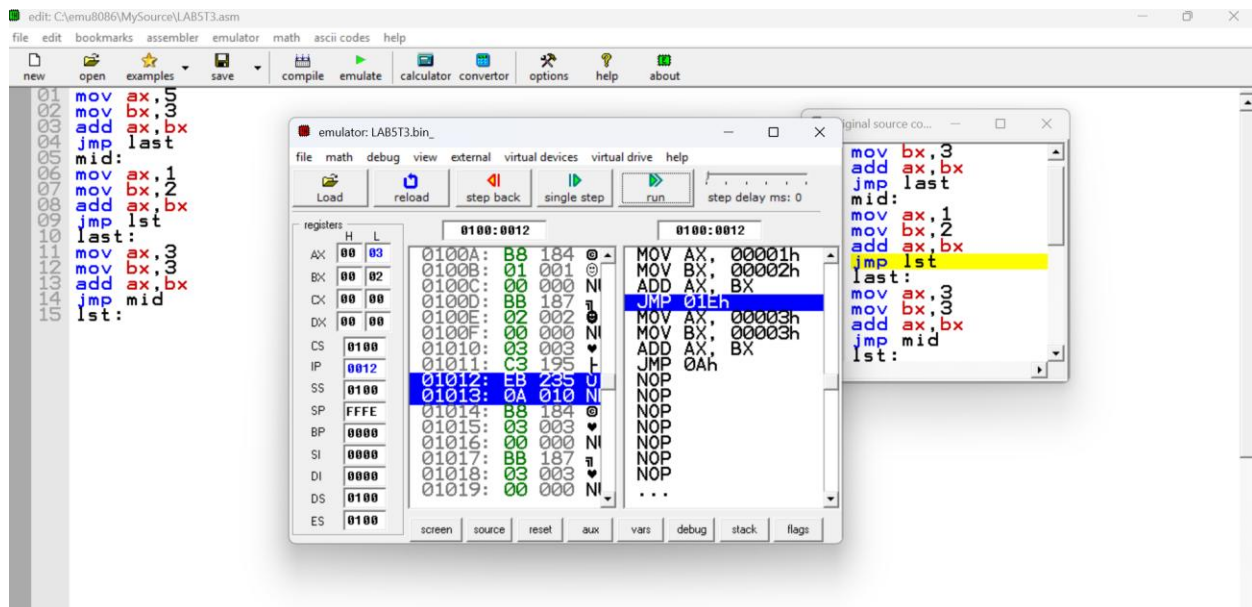
The image shows a DOSBox 0.74 window with a blue background. The title bar reads "DOSBox 0.74, Cpu speed: 3000 cycles, Frames...". The menu bar includes "File", "Edit", "Search", "View", "Options", and "Help". The current file is "C:\LAB5T2.ASM". The assembly code is as follows:

```
Sdosseg
.model small
.stack 100h
.data
    msg db ?
.code
main proc
    mov ah,1
    int 21h
    mov bl,al
    mov ah,1
    int 21h
    mov bh,al
    mov ah,1
    int 21h
    mov cl,al
    add bl,bh
    sub bl,48
    mov ch,bl
    add ch,cl
    sub ch,48
    mov msg,ch
```

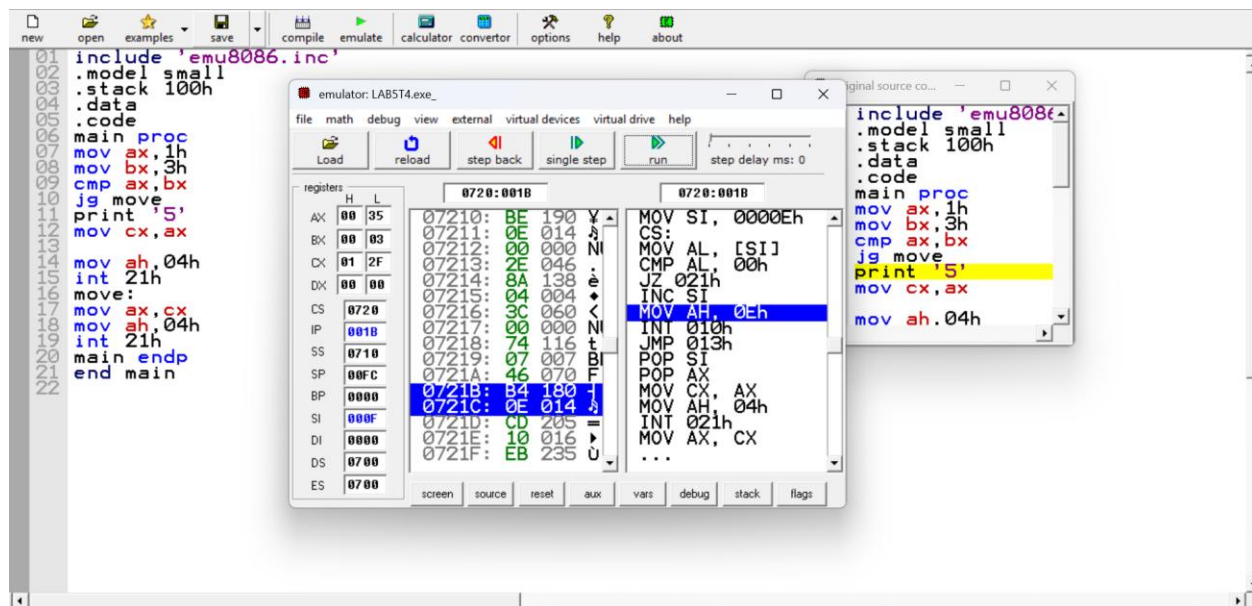
The status bar at the bottom of the window shows "F1=Help" on the left and "Line:1 Col:2" on the right. Below the DOSBox window is a taskbar with a "DOS X" icon, system icons for network, volume, and battery, and a clock showing "7:54 PM 9/22/2025".



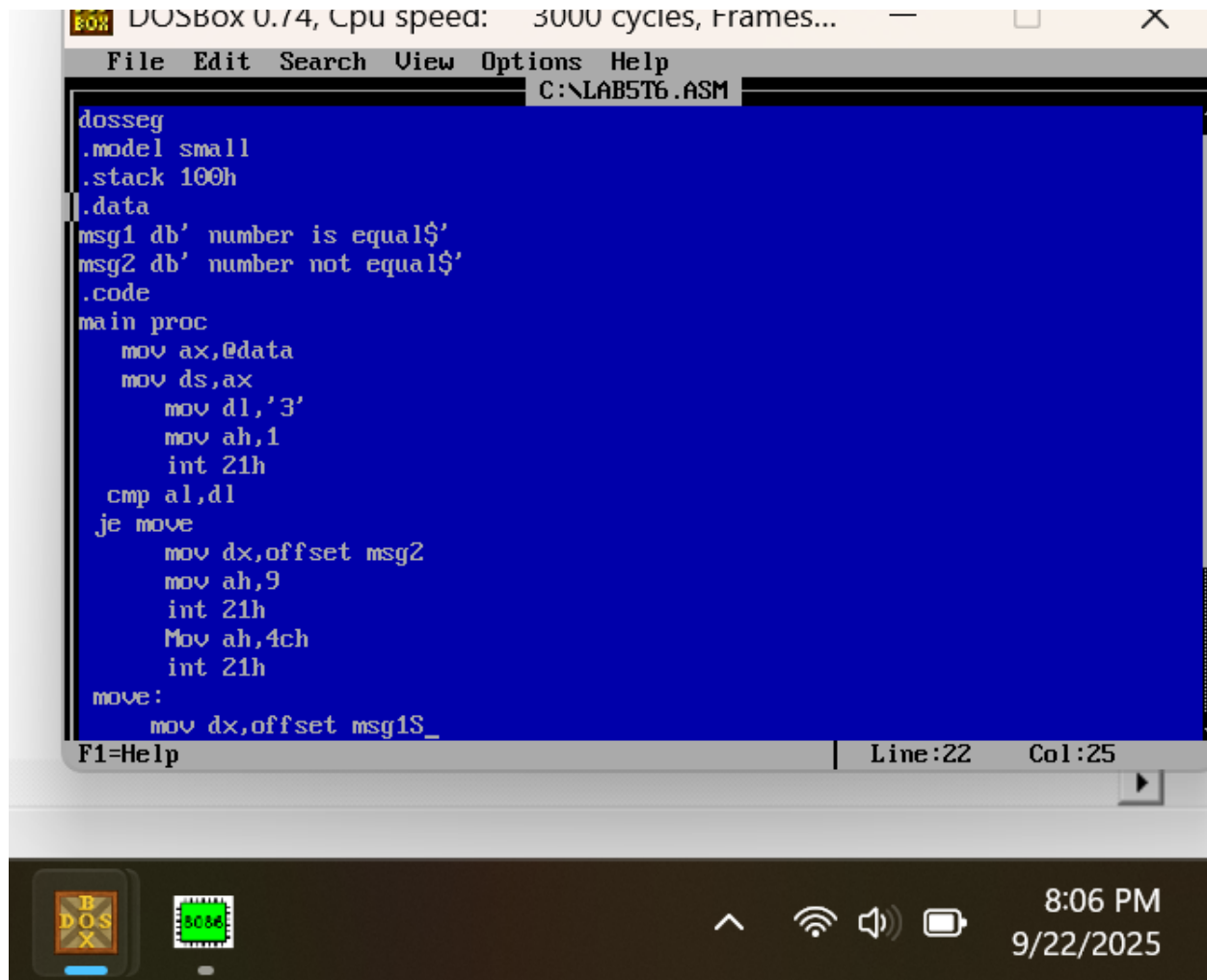
TASK 3:



TASK 4:



TASK 5:



```
dosseg
.model small
.stack 100h
.data
msg1 db ' number is equal$'
msg2 db ' number not equal$'
.code
main proc
    mov ax,@data
    mov ds,ax
    mov dl,'3'
    mov ah,1
    int 21h
    cmp al,dl
    je move
    mov dx,offset msg2
    mov ah,9
    int 21h
    Mov ah,4ch
    int 21h
move:
    mov dx,offset msg1$_
F1=Help | Line:22 Col:25
```

```
C:\>edit LAB5T6.asm

C:\>masm LAB5T6.asm;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

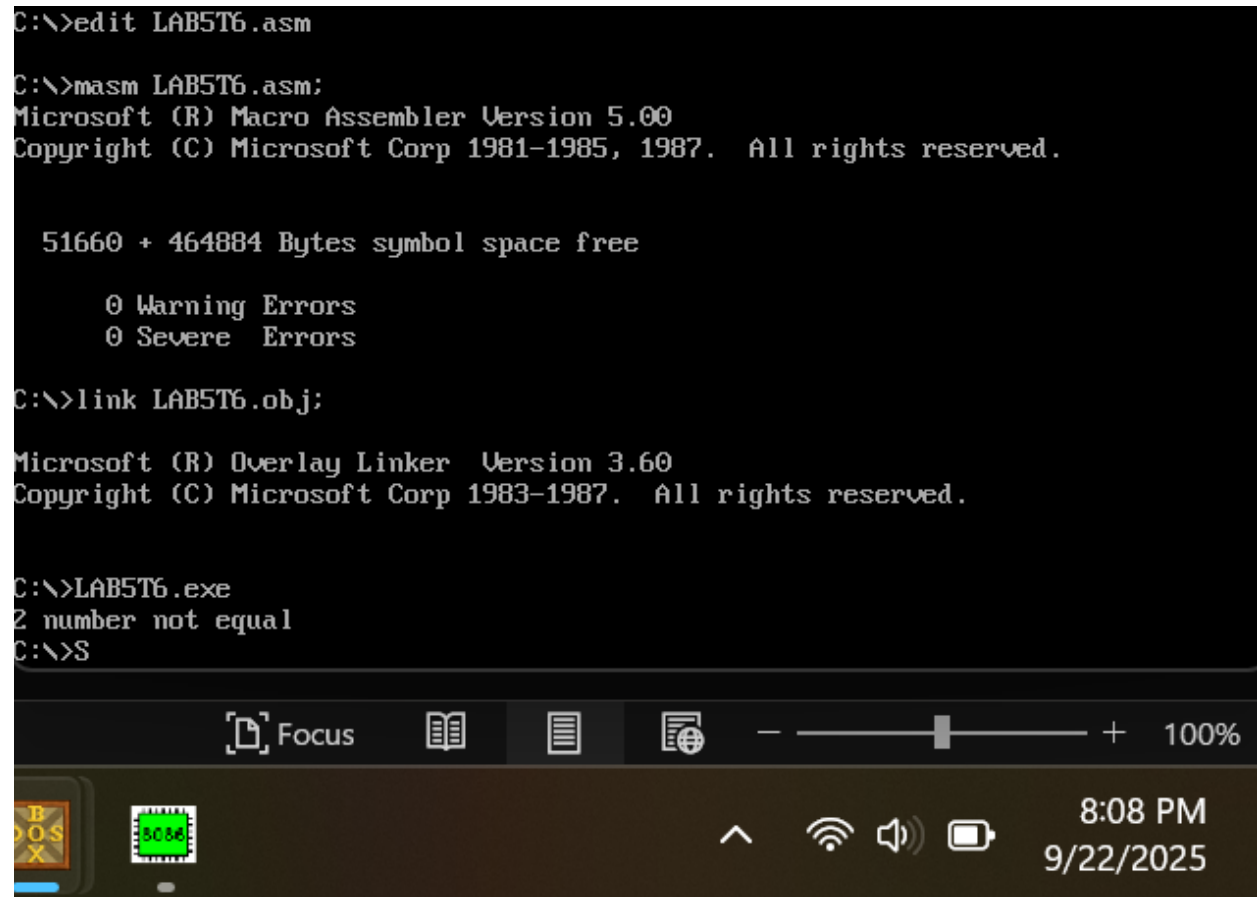
51660 + 464884 Bytes symbol space free

0 Warning Errors
0 Severe Errors

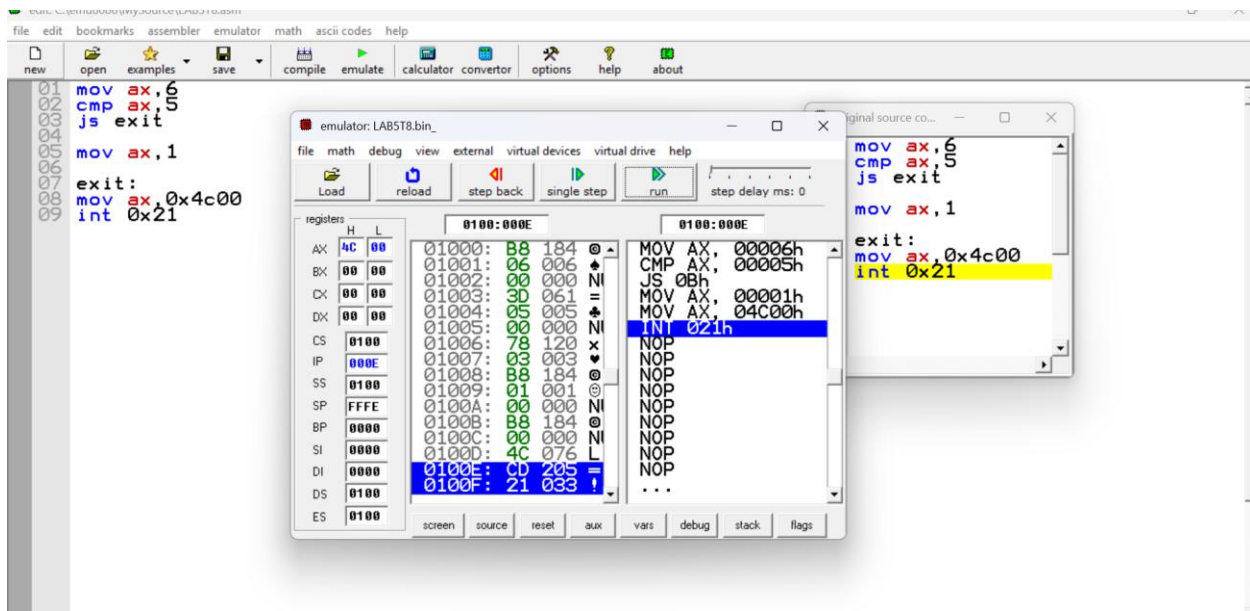
C:\>link LAB5T6.obj;

Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

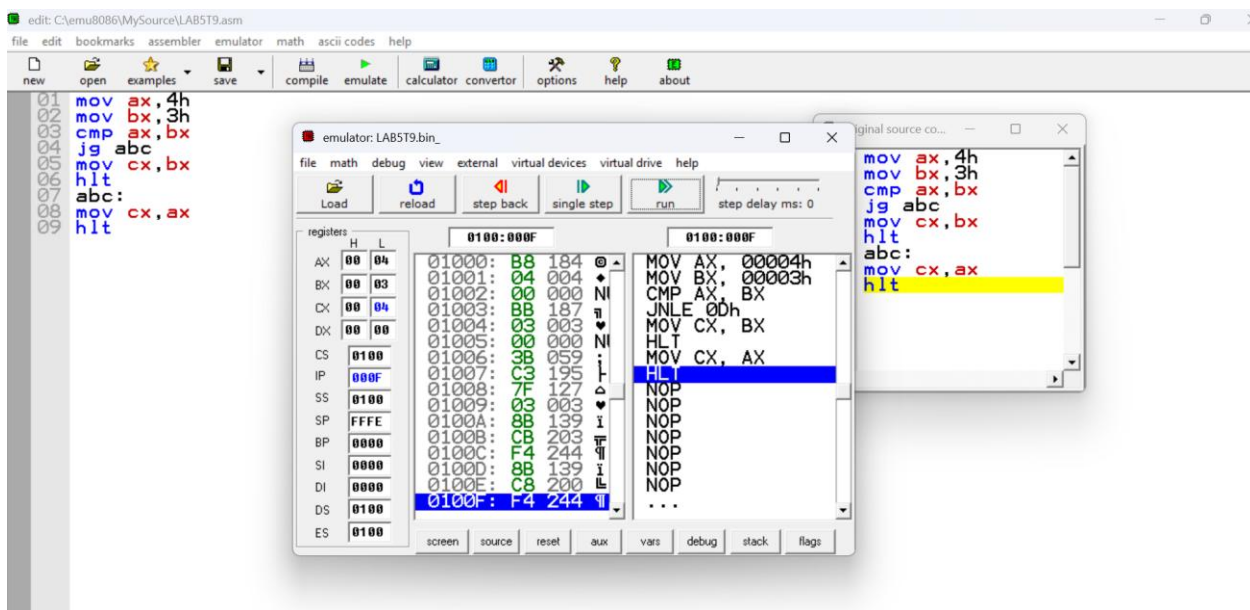
C:\>LAB5T6.exe
2 number not equal
C:\>S
```



TASK 7:



TASK 8:



TASK 9:

