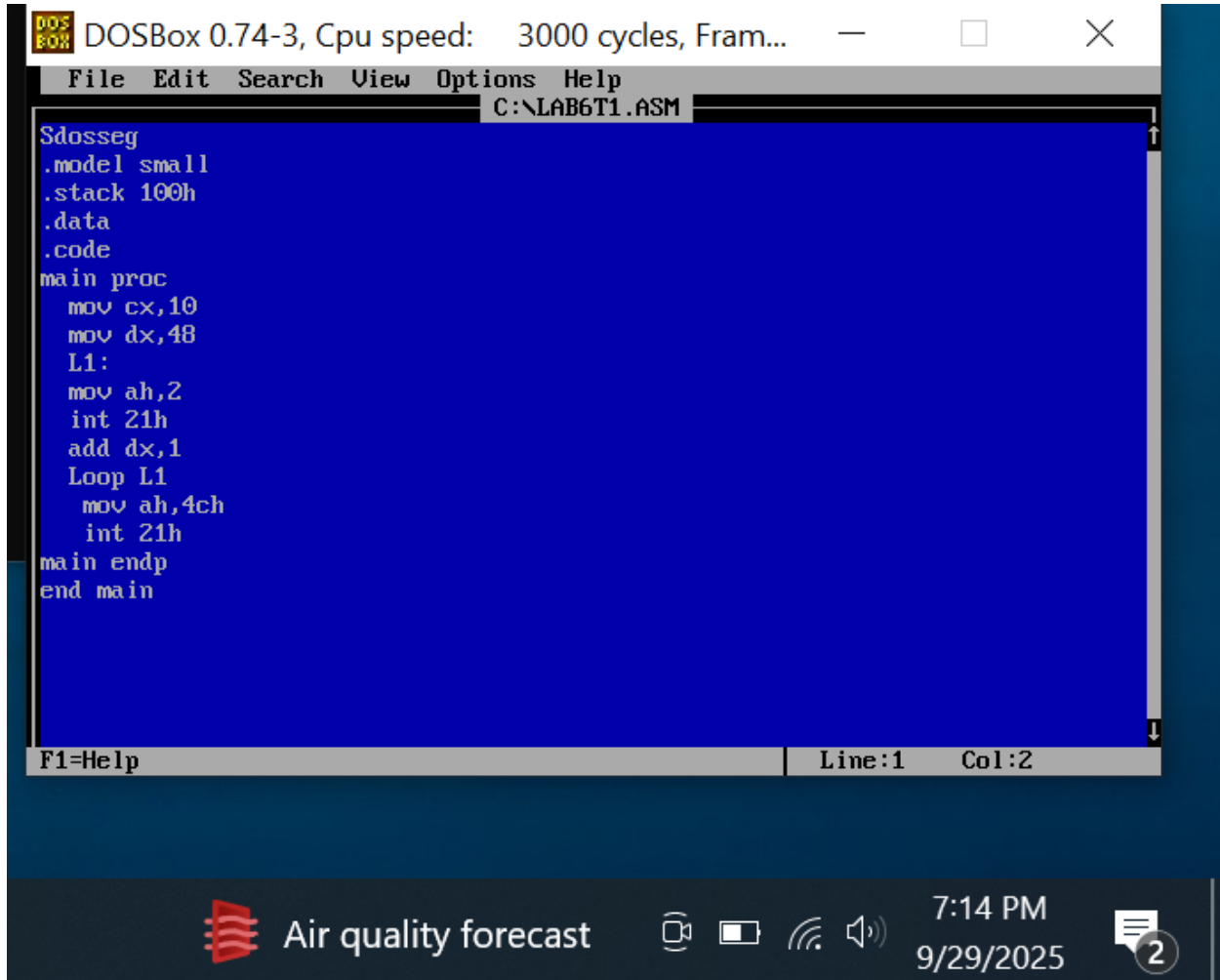


# LAB – 06 – Saghir Ali – COAL – AI 3-1

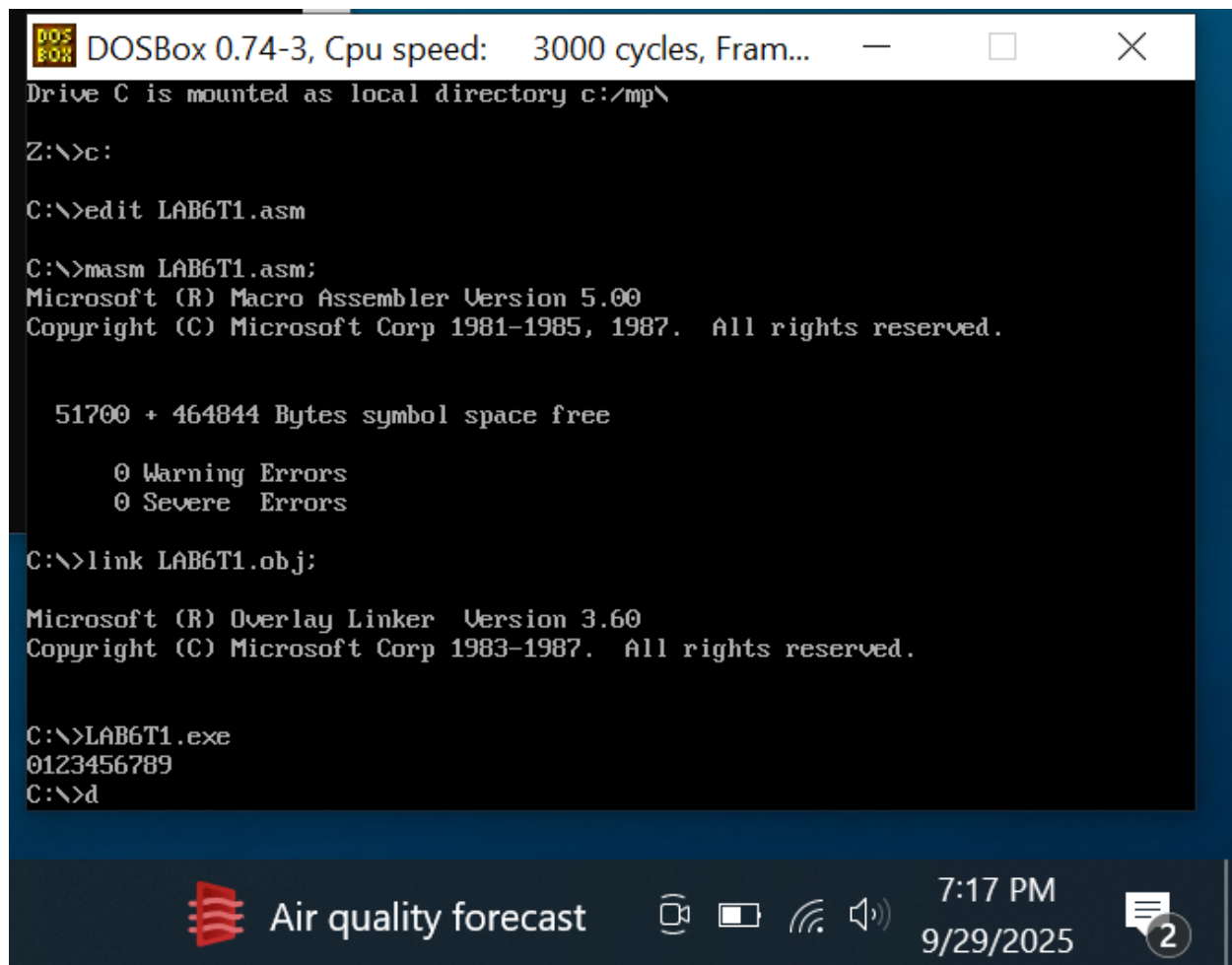
## TASK – 01



The screenshot shows a DOSBox window titled "DOSBox 0.74-3, Cpu speed: 3000 cycles, Fram...". The window has a menu bar with "File", "Edit", "Search", "View", "Options", and "Help". The title bar also shows the file path "C:\LAB6T1.ASM". The main window area has a blue background and displays the following assembly code:

```
Sdosseg
.model small
.stack 100h
.data
.code
main proc
    mov cx,10
    mov dx,48
L1:
    mov ah,2
    int 21h
    add dx,1
    Loop L1
    mov ah,4ch
    int 21h
main endp
end main
```

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 window, the Windows taskbar is visible, showing the "Air quality forecast" application, system icons for network, battery, and volume, the time "7:14 PM", the date "9/29/2025", and a notification icon with the number "2".

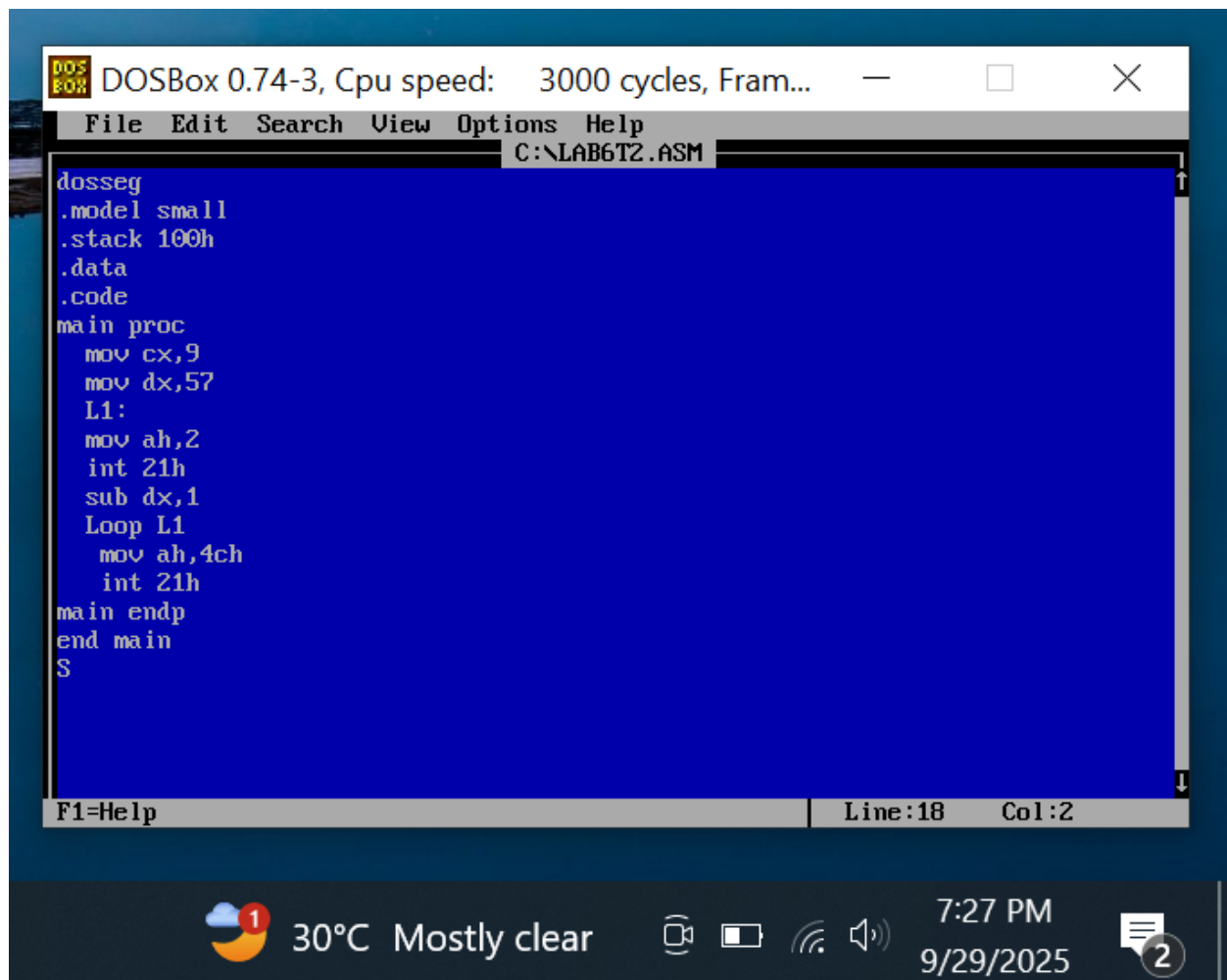


The image shows a DOSBox window titled "DOSBox 0.74-3, Cpu speed: 3000 cycles, Fram...". The window has a black background with white text. The text shows the following commands and output:

```
Drive C is mounted as local directory c:/mp\  
Z:\>c:  
C:\>edit LAB6T1.asm  
C:\>masm LAB6T1.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:\>link LAB6T1.obj;  
Microsoft (R) Overlay Linker Version 3.60  
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.  
C:\>LAB6T1.exe  
0123456789  
C:\>d
```

At the bottom of the window, there is a taskbar with a red icon, the text "Air quality forecast", and system icons for network, battery, and volume. The system clock shows "7:17 PM 9/29/2025" and a notification icon with the number "2".

## TASK – 02



DOSBox 0.74-3, Cpu speed: 3000 cycles, Fram... — □ ×

C:\>LAB6T2.exe

987654321

C:\>edit LAB6T2.asm

C:\>masm LAB6T2.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:\>link LAB6T2.obj;

Microsoft (R) Overlay Linker Version 3.60

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

C:\>LAB6T2.exe

987654321

C:\>S



30°C Mostly clear

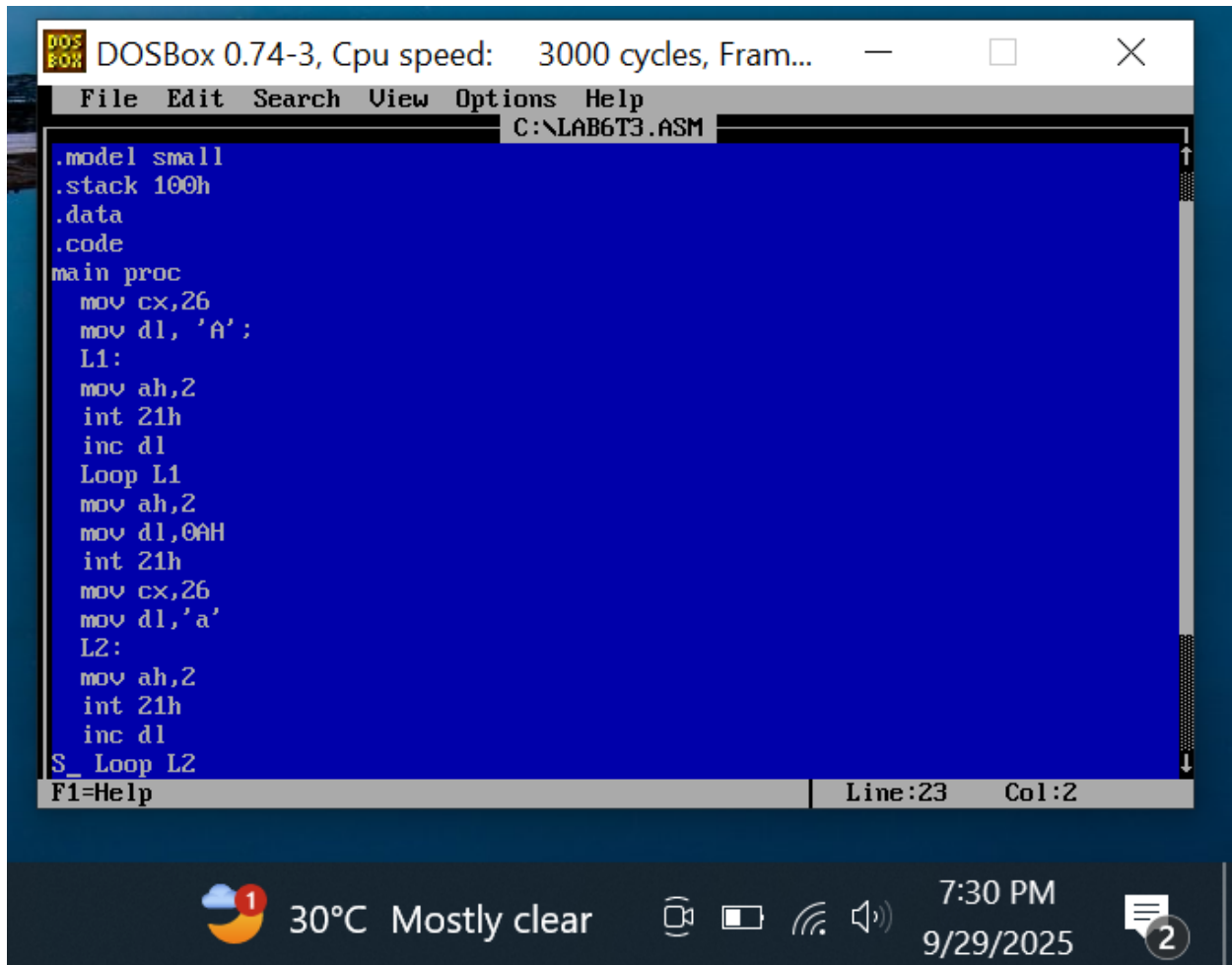


7:29 PM

9/29/2025



## TASK – 03



```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Fram...
File Edit Search View Options Help
C:\LAB6T3.ASM

.model small
.stack 100h
.data
.code
main proc
    mov cx,26
    mov dl, 'A';
L1:
    mov ah,2
    int 21h
    inc dl
    Loop L1
    mov ah,2
    mov dl,0AH
    int 21h
    mov cx,26
    mov dl,'a'
L2:
    mov ah,2
    int 21h
    inc dl
S_ Loop L2
F1=Help
Line:23 Col:2
```

30°C Mostly clear 7:30 PM 9/29/2025



DOSBox 0.74-3, Cpu speed: 3000 cycles, Fram...



C:\>LAB6T2.exe

987654321

C:\>edit LAB6T3.asm

C:\>masm LAB6T3.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:\>link LAB6T3.obj;

Microsoft (R) Overlay Linker Version 3.60

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

C:\>LAB6T3.exe

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

C:\>S\_



30°C Mostly clear

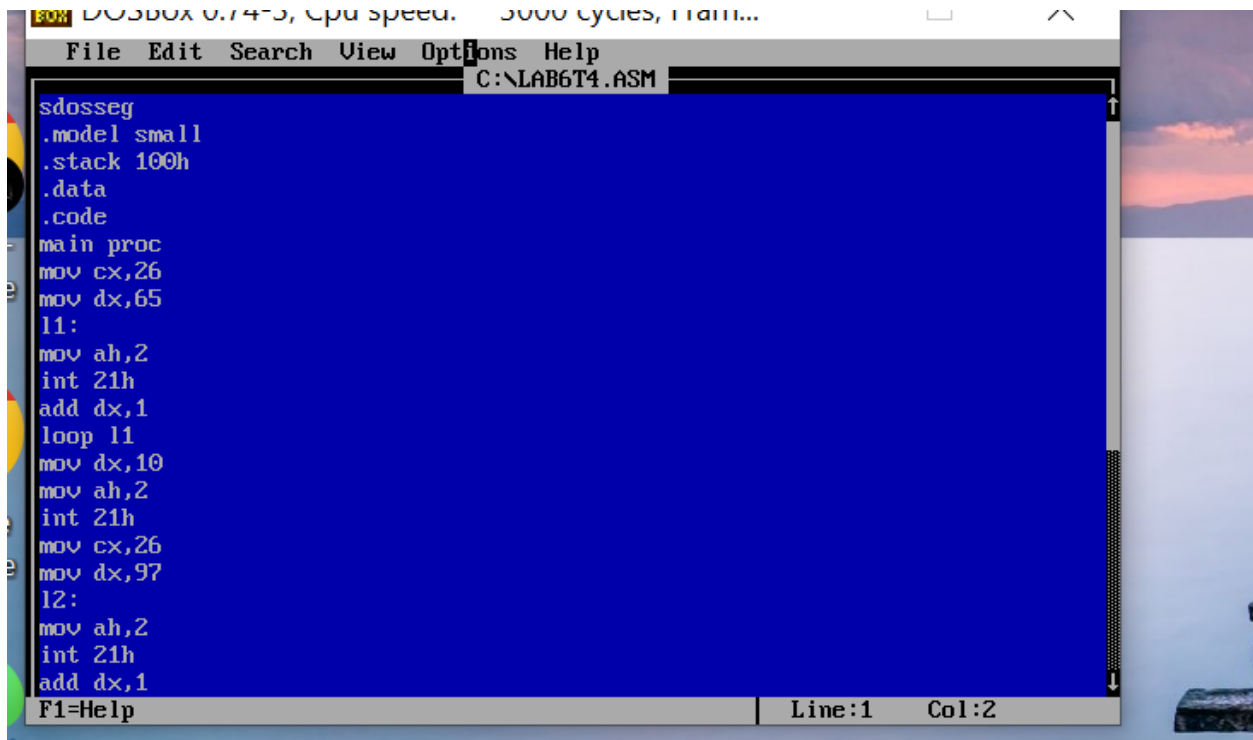


7:31 PM

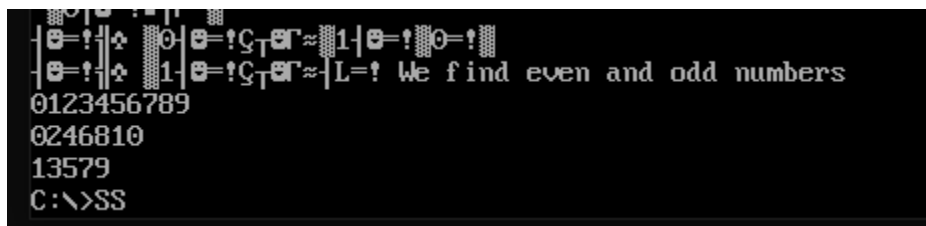
9/29/2025



## TASK – 04



```
sdosseg
.model small
.stack 100h
.data
.code
main proc
mov cx,26
mov dx,65
l1:
mov ah,2
int 21h
add dx,1
loop l1
mov dx,10
mov ah,2
int 21h
mov cx,26
mov dx,97
l2:
mov ah,2
int 21h
add dx,1
F1=Help | Line:1 Col:2
```



```
0123456789
0246810
13579
C:\>SS
```

## TASK – 05



```
C:\>link LAB6T4.obj;

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

LINK : fatal error L1093: LAB6T4.OBJ : object not found

C:\>LAB6T5.exe
012345678913579;=?A0
C:\>s
```