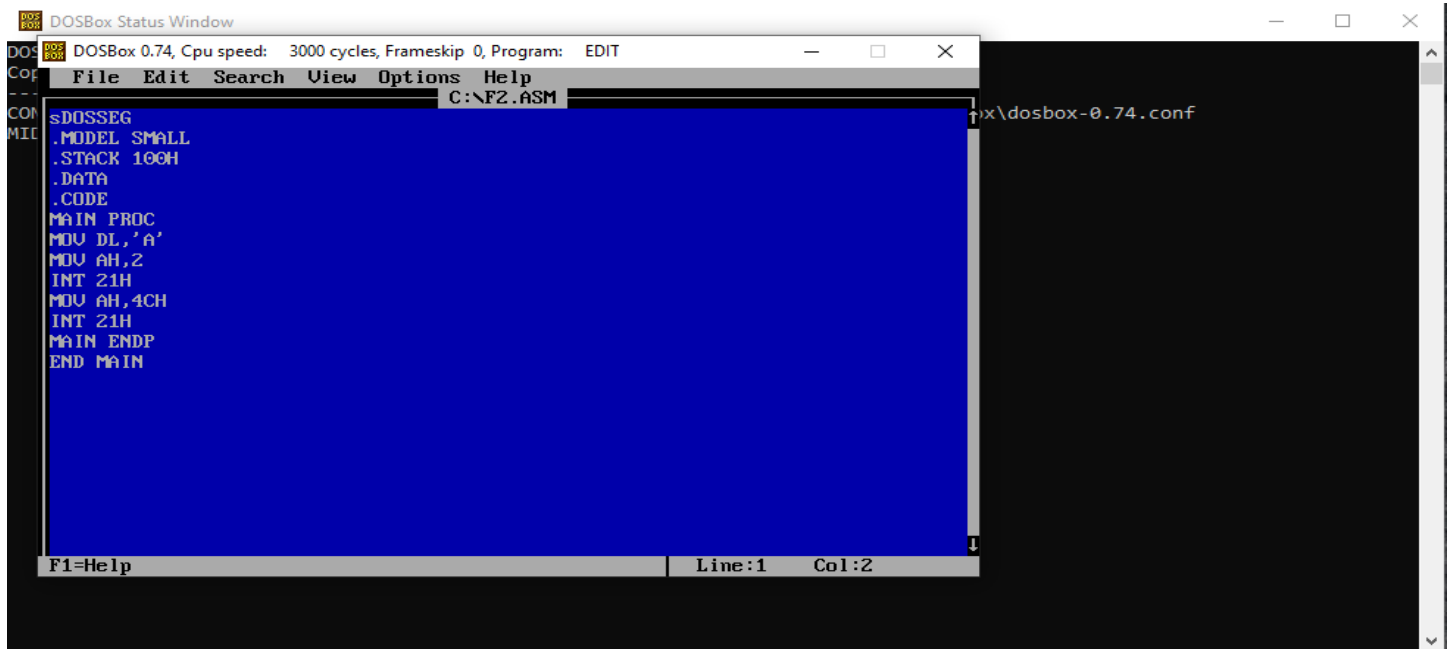


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## LAB TASK #1

1. PROGRAM TO PRINT A SINGLE CHARACTER ON SCREEN.

### CODE:



The screenshot shows the DOSBox 0.74 interface. The 'EDIT' window is open, displaying the assembly code for 'C:\F2.ASM'. The code is as follows:

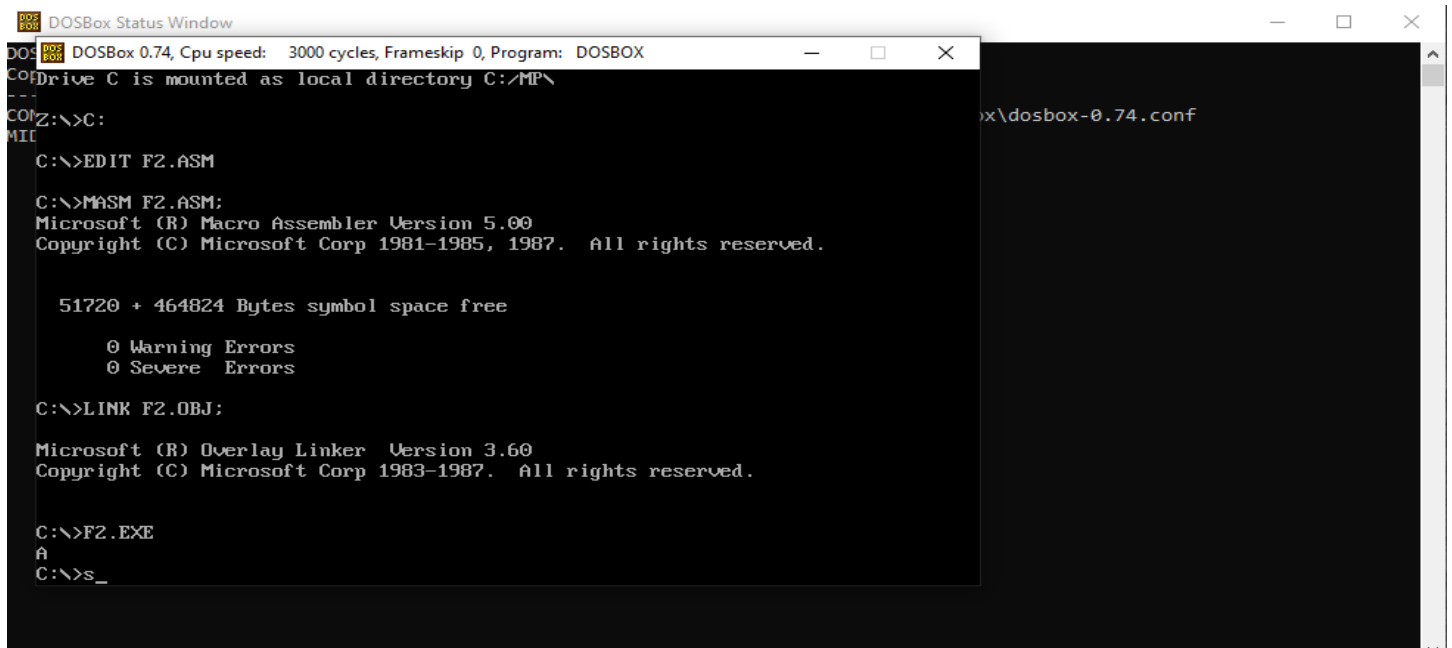
```

sDOSSEG
.MODEL SMALL
.STACK 100H
.DATA
.CODE
MAIN PROC
MOV DL,'A'
MOV AH,2
INT 21H
MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN

```

The status bar at the bottom indicates 'F1=Help', 'Line:1', and 'Col:2'.

### OUTPUT:



The screenshot shows the DOSBox 0.74 interface after the program has been executed. The command prompt shows the following sequence of commands and output:

```

C:\>EDIT F2.ASM
C:\>MASM F2.ASM;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51720 + 464824 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\>LINK F2.OBJ;
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

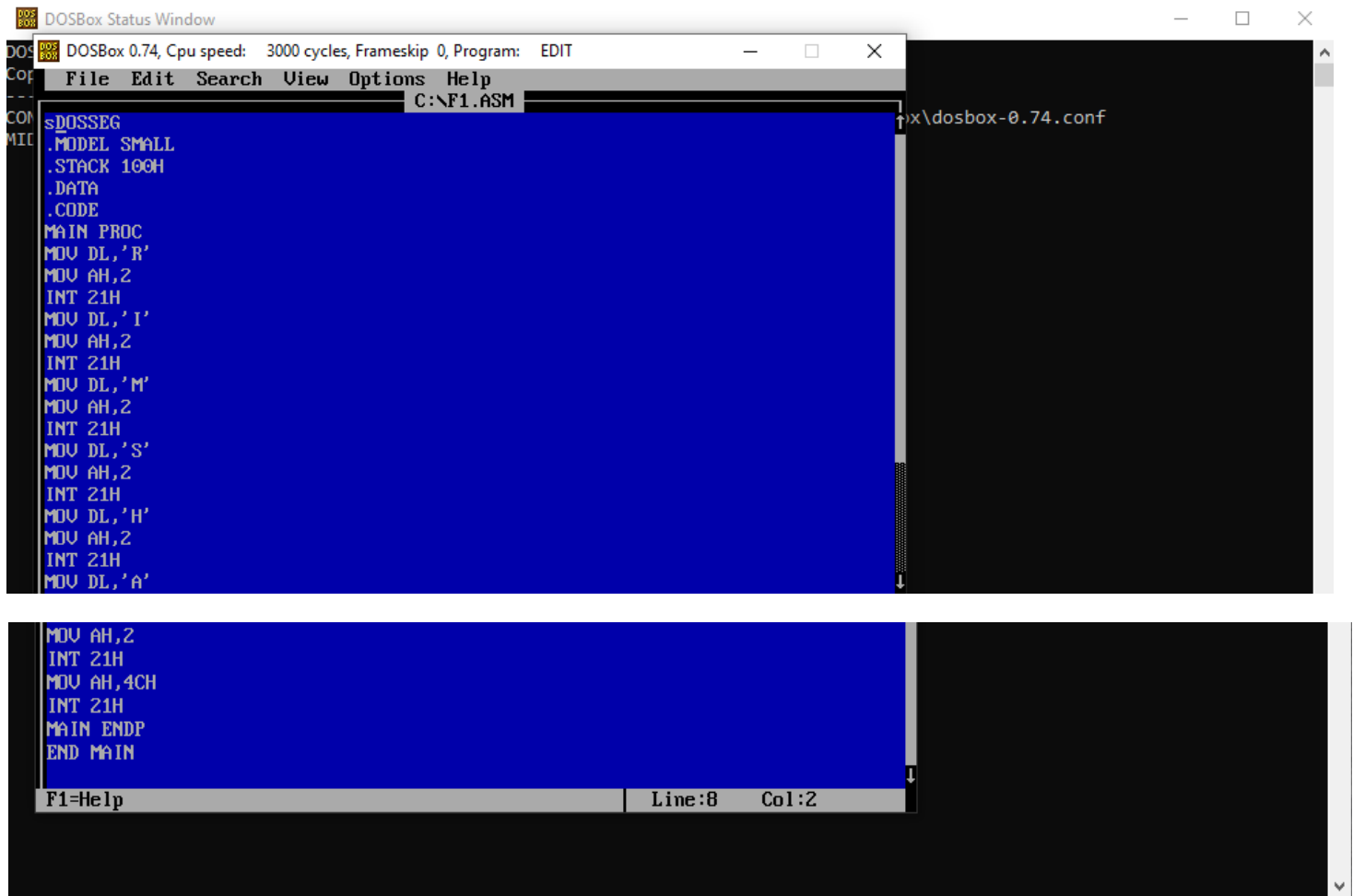
C:\>F2.EXE
A
C:\>s_

```

The output 'A' is displayed on the screen, confirming that the program successfully printed the character 'A'.

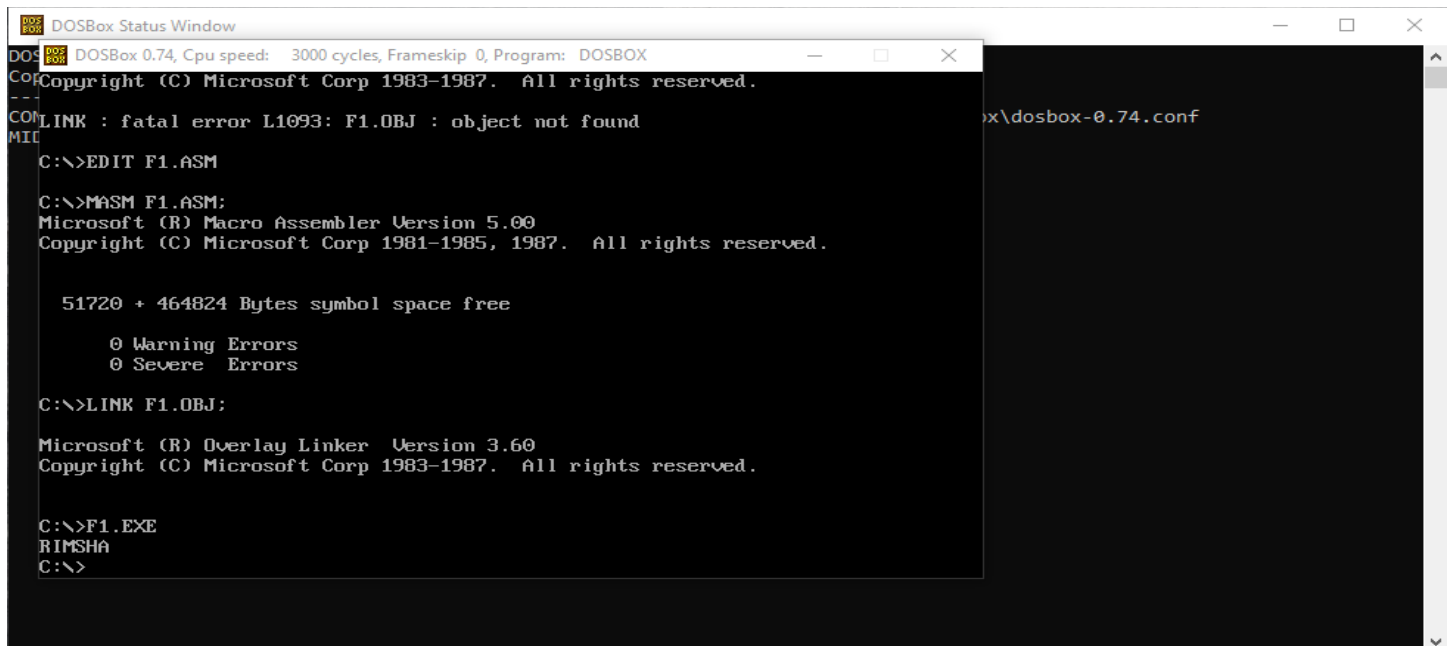
## 2. PROGRAM TO PRINT NAME WITH CHARACTER.

### CODE:



```
DOSBox Status Window
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT
File Edit Search View Options Help
C:\F1.ASM
sDOSSEG
.MODEL SMALL
.STACK 100H
.DATA
.CODE
MAIN PROC
MOV DL, 'R'
MOV AH, 2
INT 21H
MOV DL, 'I'
MOV AH, 2
INT 21H
MOV DL, 'M'
MOV AH, 2
INT 21H
MOV DL, 'S'
MOV AH, 2
INT 21H
MOV DL, 'H'
MOV AH, 2
INT 21H
MOV DL, 'A'
MOV AH, 2
INT 21H
MOV AH, 4CH
INT 21H
MAIN ENDP
END MAIN
F1=Help Line:8 Col:2
```

### OUTPUT:



```
DOSBox Status Window
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.
LINK : fatal error L1093: F1.OBJ : object not found
C:\>EDIT F1.ASM
C:\>MASM F1.ASM:
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51720 + 464824 Bytes symbol space free
0 Warning Errors
0 Severe Errors
C:\>LINK F1.OBJ:
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

C:\>F1.EXE
RIMSHA
C:\>
```