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LAB TASK # 2

1. Program to input a character and print on screen.

CODE:

The screenshot shows the DOSBox 0.74 interface with the EDIT program open. The file being edited is C:\F4.ASM. The code is as follows:

```

PROGRAM TO INPUT A CHARACTER
DOSSEG
.MODEL SMALL
.STACK 100H
.DATA
.CODE
MAIN PROC
MOV AH,1
INT 21H
MOV DL,AL
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:1".

OUTPUT:

The screenshot shows the DOSBox 0.74 interface with the command prompt. The following commands and output are shown:

```

Drive C is mounted as local directory C:/MP\

Z:\>C:

C:\>EDIT F4.ASM

C:\>MASM F4.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 F4.OBJ;

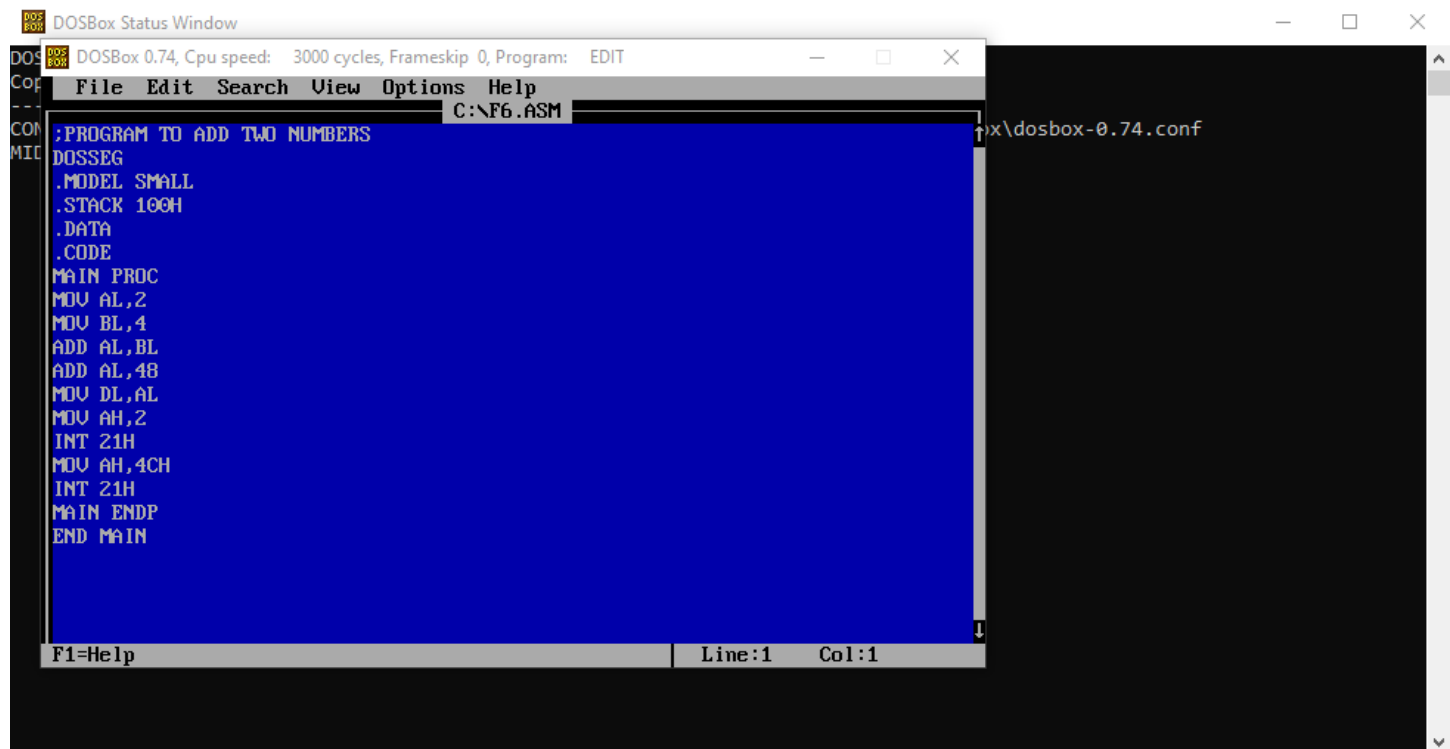
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

C:\>F4.EXE
RR
C:\>_

```

2. Program to add two numbers.

Code:

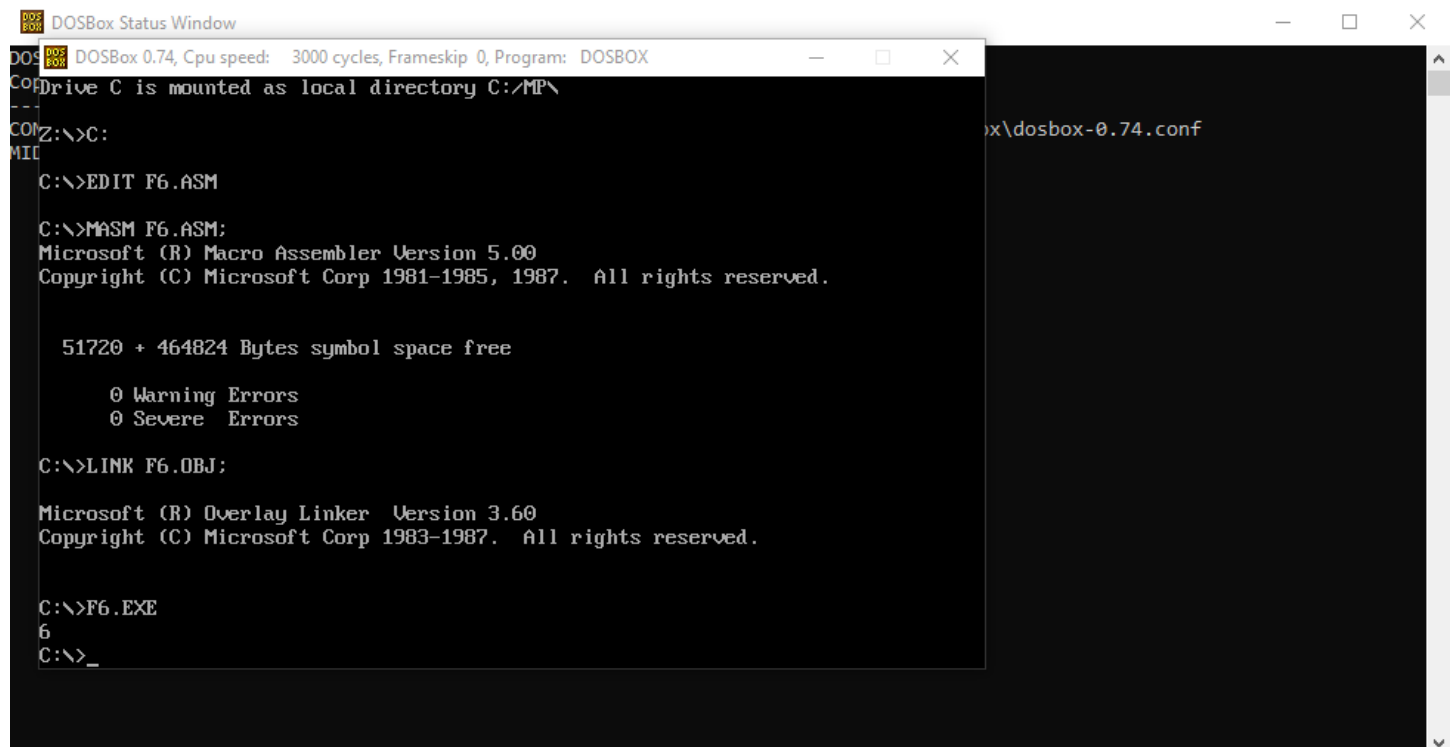


The screenshot shows a DOSBox Status Window with the title bar "DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT". The window contains a menu bar with "File", "Edit", "Search", "View", "Options", and "Help". The main text area displays the assembly code for a program to add two numbers. The code is as follows:

```
PROGRAM TO ADD TWO NUMBERS
DOSSEG
.MODEL SMALL
.STACK 100H
.DATA
.CODE
MAIN PROC
MOV AL,2
MOV BL,4
ADD AL,BL
ADD AL,4B
MOV DL,AL
MOV AH,2
INT 21H
MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN
```

The status bar at the bottom of the window shows "F1=Help", "Line:1", and "Col:1".

Output:



The screenshot shows a DOSBox Status Window with the title bar "DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX". The window contains the output of the assembly and linking process. The output is as follows:

```
Drive C is mounted as local directory C:\MP\
C:\>C:
C:\>EDIT F6.ASM
C:\>MASM F6.ASM;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51720 + 464824 Bytes symbol space free

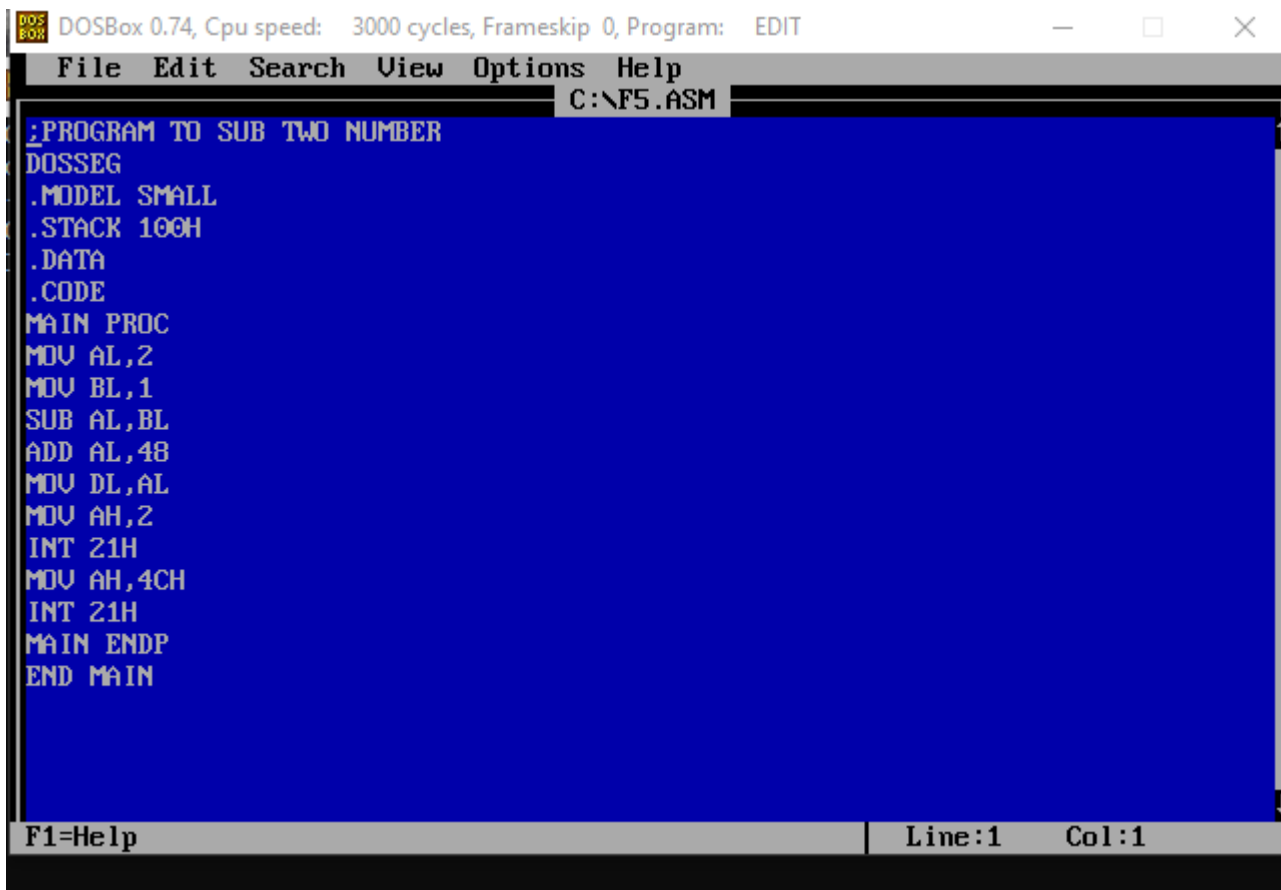
0 Warning Errors
0 Severe Errors

C:\>LINK F6.OBJ;
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

C:\>F6.EXE
6
C:\>_
```

3. Program to sub two numbers.

Code:



DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT

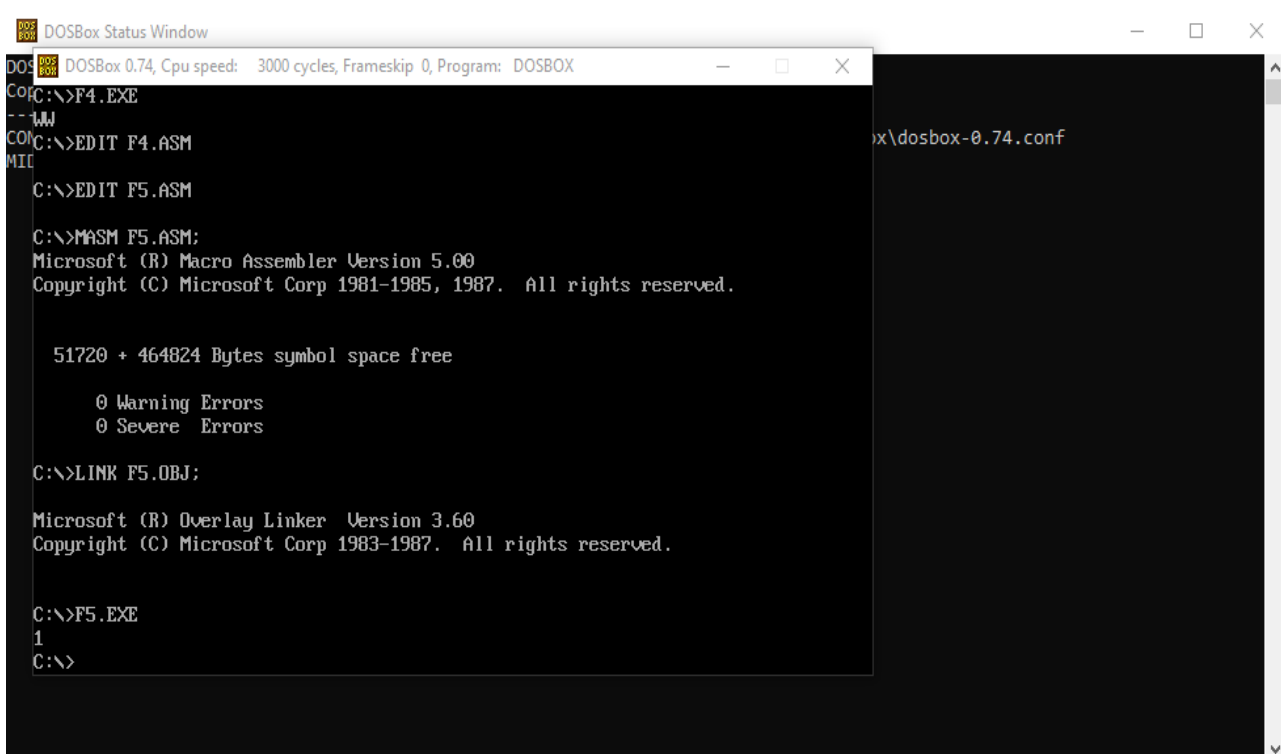
File Edit Search View Options Help

C:\F5.ASM

```
;PROGRAM TO SUB TWO NUMBER
DOSSEG
.MODEL SMALL
.STACK 100H
.DATA
.CODE
MAIN PROC
MOV AL,2
MOV BL,1
SUB AL,BL
ADD AL,48
MOV DL,AL
MOV AH,2
INT 21H
MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN
```

F1=Help Line:1 Col:1

Output:



DOSBox Status Window

DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX

```
C:\>F4.EXE
--
C:\>EDIT F4.ASM
C:\>EDIT F5.ASM

C:\>MASM F5.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

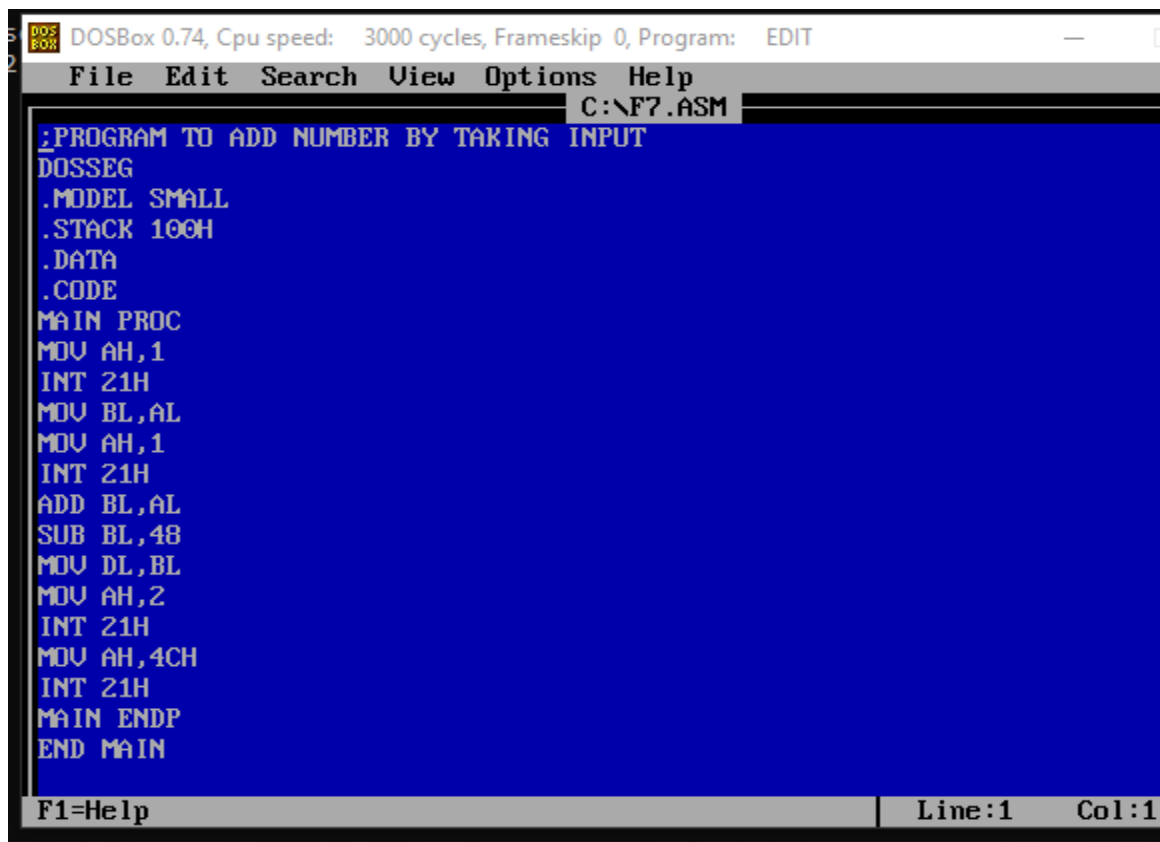
C:\>LINK F5.OBJ;

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

C:\>F5.EXE
1
C:\>
```

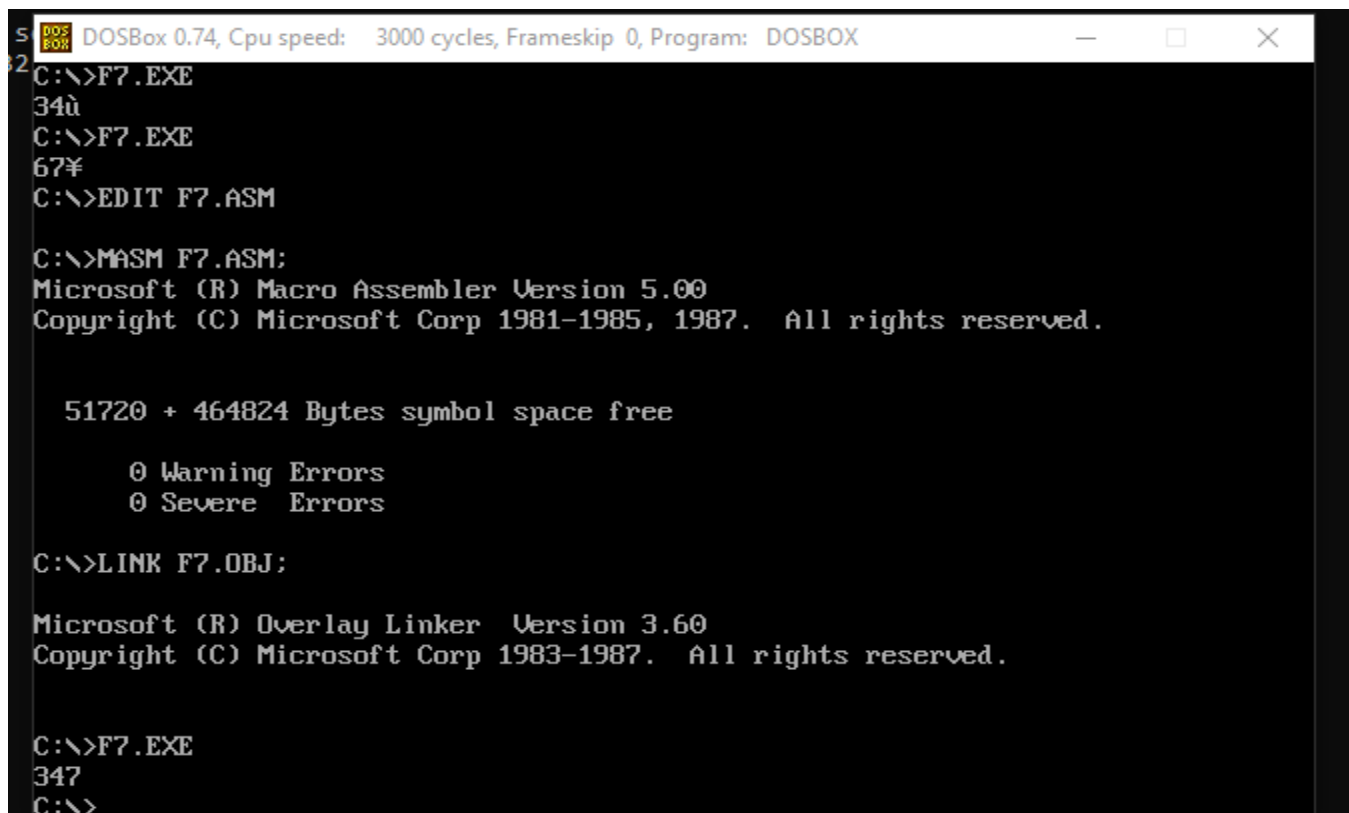
4. Input two numbers and add them.

Code:



```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT
File Edit Search View Options Help
C:\F7.ASM
:PROGRAM TO ADD NUMBER BY TAKING INPUT
DOSSEG
.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:1
```

Output:



```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
C:\>F7.EXE
347
C:\>F7.EXE
677
C:\>EDIT F7.ASM

C:\>MASM F7.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 F7.OBJ:

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

C:\>F7.EXE
347
C:\>
```