LAB TASK # 3

1. Program to PRINT two strings on two different lines.

CODE:

```
;PROGRAM TO PRINT STRING IN DIFFERENT LINES
DOSSEG
.MODEL SMALL
.STACK 100H
.DATA
S1 DB 'HELLO$'
S2 DB 'NICE TO MEET YOU$'

.CODE
MAIN PROC
MOV AX,@DATA
MOV DS,AX
MOV DX, OFFSET S1
MOV AH,9
INT 21H
MOV DX,10
MOV AH,2
INT 21H
MOV DX,13
MOV AH,2
INT 21H
MOV DX, OFFSET S2
MOV AH,9
INT 21H
MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN
```
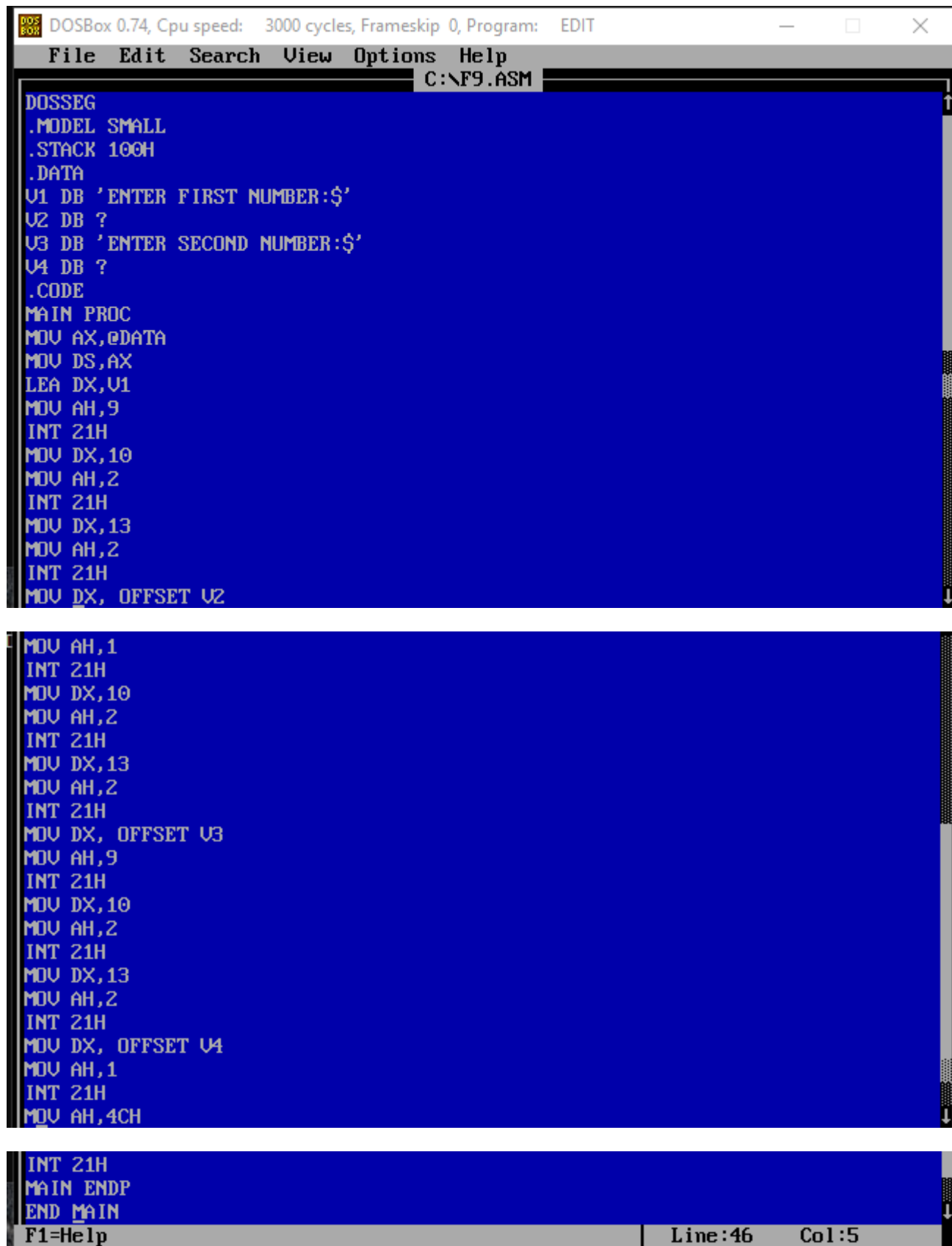
OUTPUT:

```
Microsoft (R) Overlay Linker  Version 3.60
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C:\>F8.EXE
HELLO
NICE TO MEET YOU
C:\>_
```

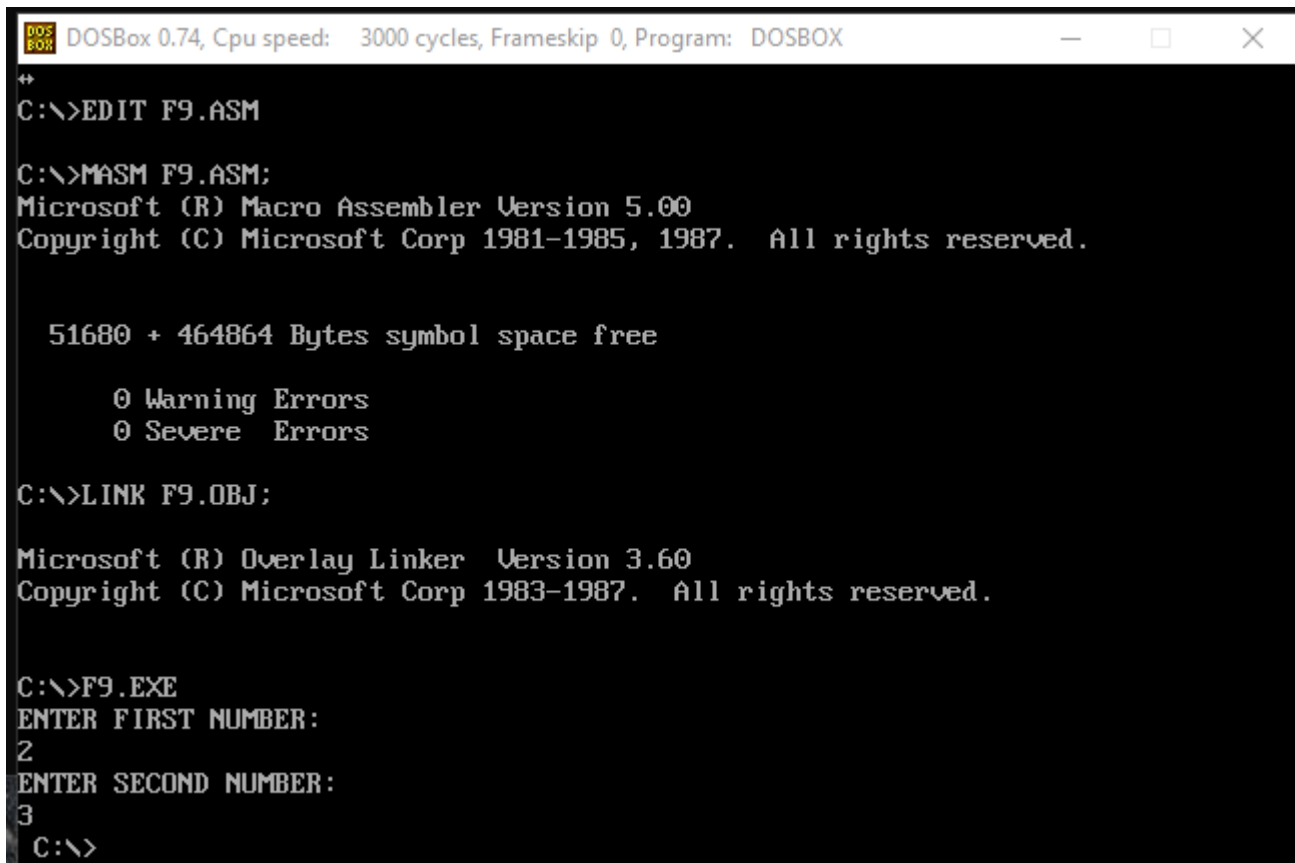*2. Designed code of your choice to further explore this topic.*

CODE:

```
File   Edit   Search   View   Options   Help
                       C:\F9.ASM
DOSSEG
.MODEL SMALL
.STACK 100H
.DATA
V1 DB 'ENTER FIRST NUMBER:$'
V2 DB ?
V3 DB 'ENTER SECOND NUMBER:$'
V4 DB ?
.CODE
MAIN PROC
MOV AX,@DATA
MOV DS,AX
LEA DX,V1
MOV AH,9
INT 21H
MOV DX,10
MOV AH,2
INT 21H
MOV DX,13
MOV AH,2
INT 21H
MOV DX, OFFSET V2
```

```
MOV AH,1
INT 21H
MOV DX,10
MOV AH,2
INT 21H
MOV DX,13
MOV AH,2
INT 21H
MOV DX, OFFSET V3
MOV AH,9
INT 21H
MOV DX,10
MOV AH,2
INT 21H
MOV DX,13
MOV AH,2
INT 21H
MOV DX, OFFSET V4
MOV AH,1
INT 21H
MOV AH,4CH
```

```
INT 21H
MAIN ENDP
END MAIN
```

F1=Help   Line:46   Col:5

OUTPUT:

```
DOSBox 0.74, Cpu speed:   3000 cycles, Frameskip 0, Program:  DOSBOX          —    □    ✕

C:\>EDIT F9.ASM

C:\>MASM F9.ASM;
Microsoft (R) Macro Assembler Version 5.00
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  51680 + 464864 Bytes symbol space free

      0 Warning Errors
      0 Severe  Errors

C:\>LINK F9.OBJ;

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C:\>F9.EXE
ENTER FIRST NUMBER:
2
ENTER SECOND NUMBER:
3
 C:\>
```