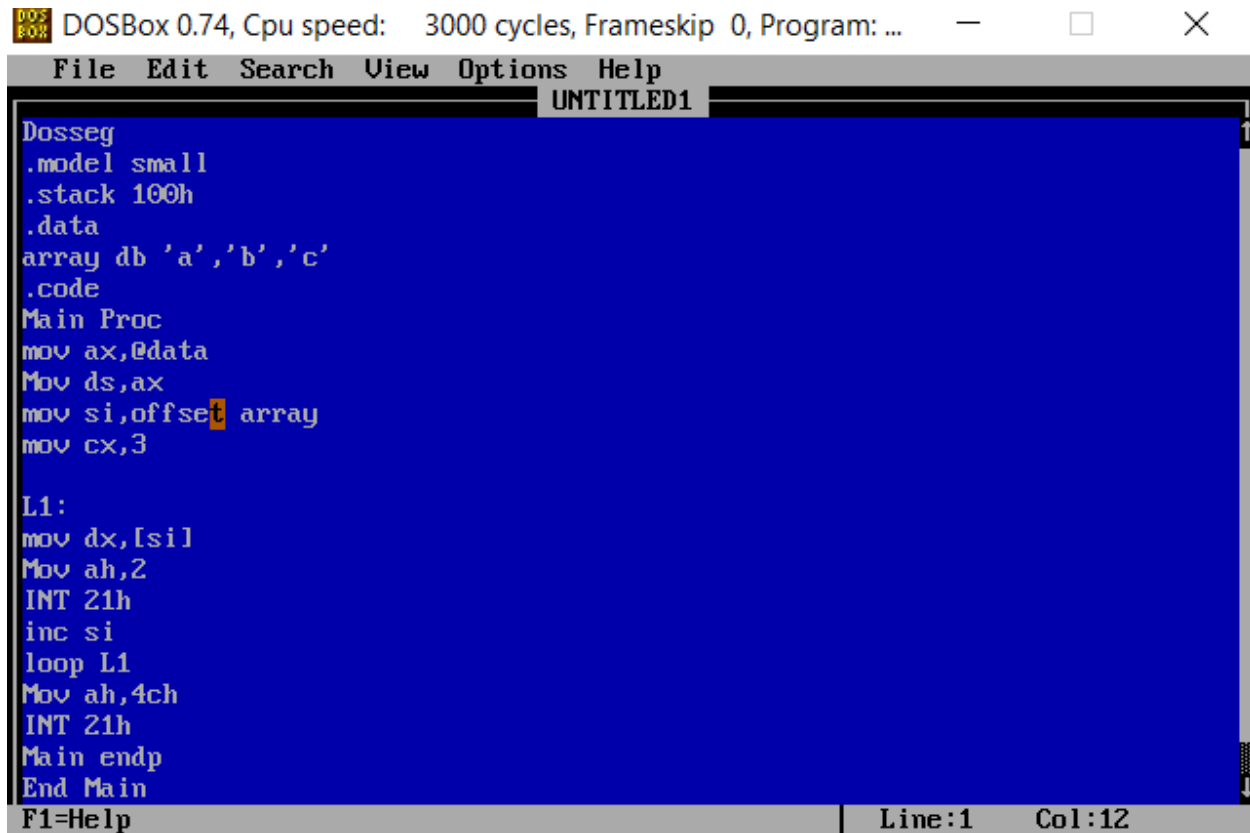


1. Program to print array using loop.

Code:



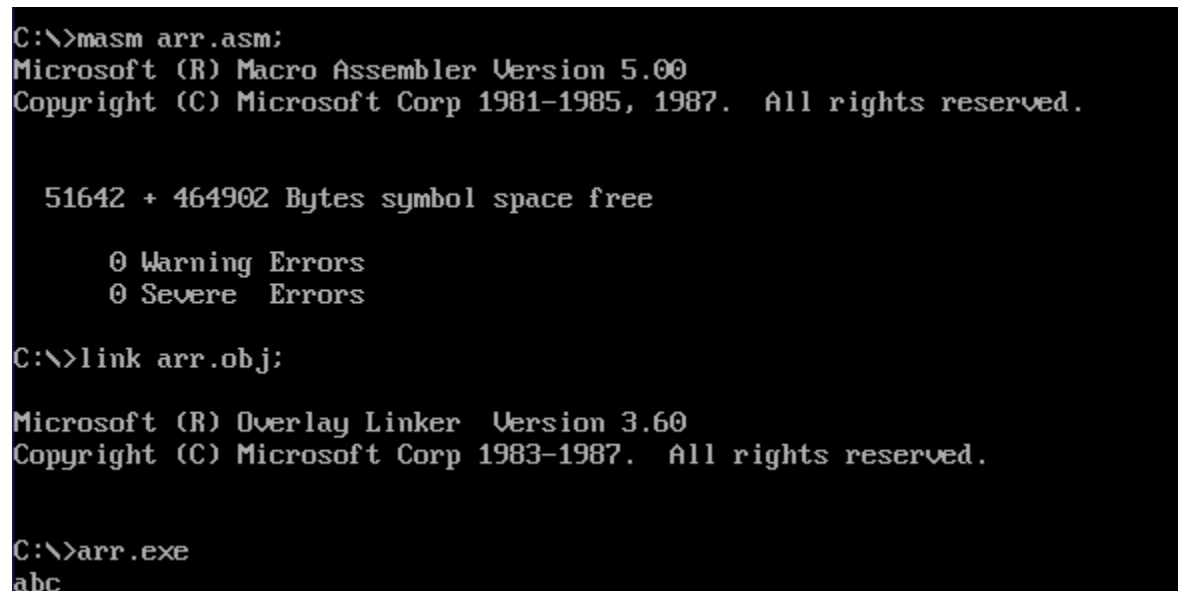
The screenshot shows a DOSBox 0.74 window with a menu bar (File, Edit, Search, View, Options, Help) and a title bar (DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: ...). The main window is titled 'UNTITLED1' and contains assembly code on a blue background. The code defines a small model, sets up a stack, declares a data array with characters 'a', 'b', and 'c', and then writes a procedure 'Main Proc' that uses a loop to print each character using INT 21h. The status bar at the bottom indicates 'Line:1 Col:12'.

```
Dosseg
.model small
.stack 100h
.data
array db 'a','b','c'
.code
Main Proc
mov ax,@data
Mov ds,ax
mov si,offset array
mov cx,3

L1:
mov dx,[si]
Mov ah,2
INT 21h
inc si
loop L1
Mov ah,4ch
INT 21h
Main endp
End Main
```

F1=Help | Line:1 Col:12

Result:



The screenshot shows a command prompt window with the following text:

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

51642 + 464902 Bytes symbol space free

0 Warning Errors
0 Severe Errors

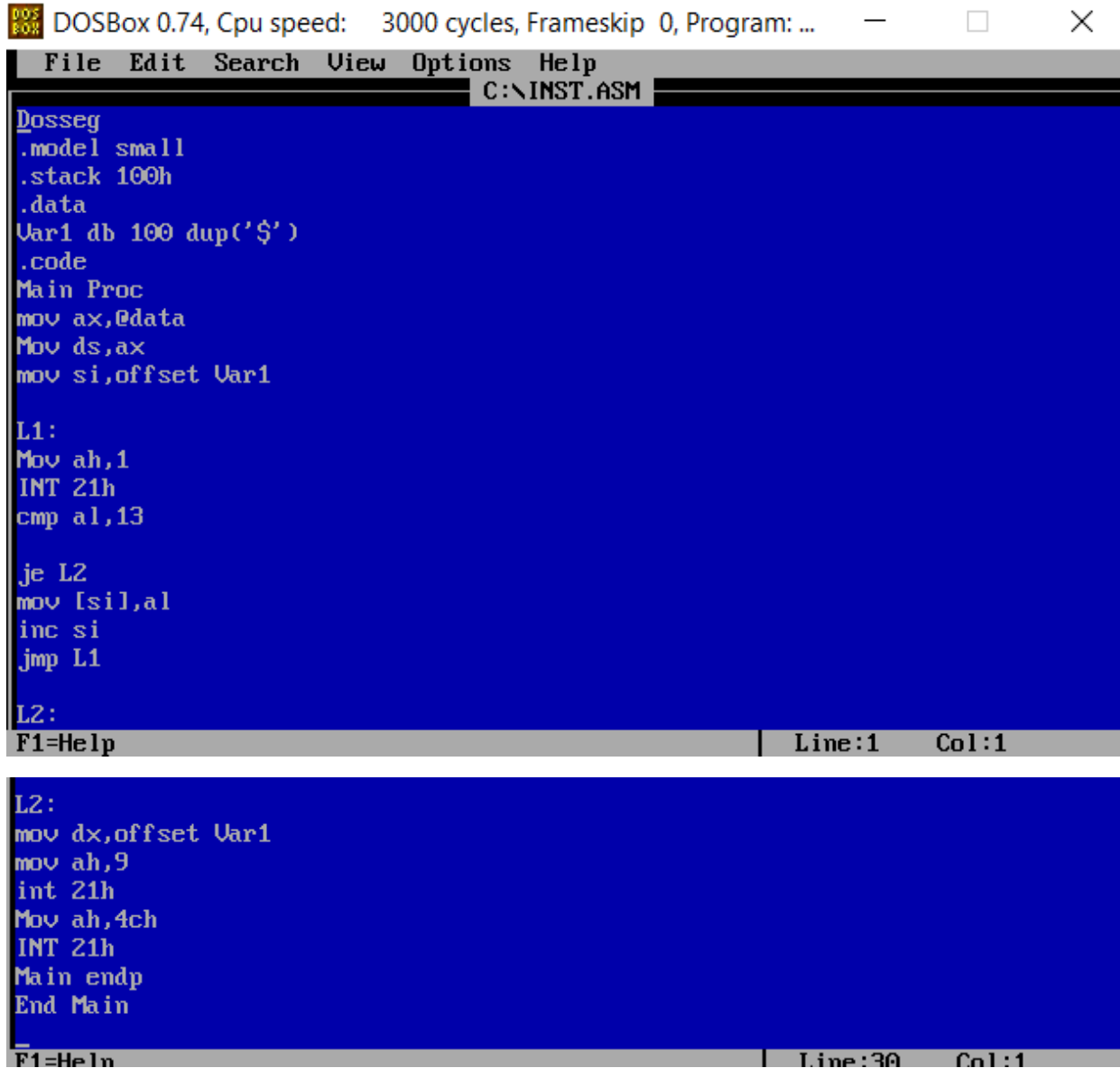
C:\>link arr.obj:

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

C:\>arr.exe
abc
```

2. Program to input string and print it.

Code:



The image shows a DOSBox 0.74 window with a blue background and white text. The window title is "DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: ...". The menu bar includes "File", "Edit", "Search", "View", "Options", and "Help". The current file is "C:\INST.ASM". The assembly code is as follows:

```
Dosseg
.model small
.stack 100h
.data
Var1 db 100 dup('$')
.code
Main Proc
mov ax,0data
Mov ds,ax
mov si,offset Var1

L1:
Mov ah,1
INT 21h
cmp al,13

je L2
mov [si],al
inc si
jmp L1

L2:
mov dx,offset Var1
mov ah,9
int 21h
Mov ah,4ch
INT 21h
Main endp
End Main
```

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

Result:

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

    51668 + 464876 Bytes symbol space free

    0 Warning Errors
    0 Severe Errors

C:\>link inst.obj;

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

C:\>inst.exe
string
string
C:\>
```