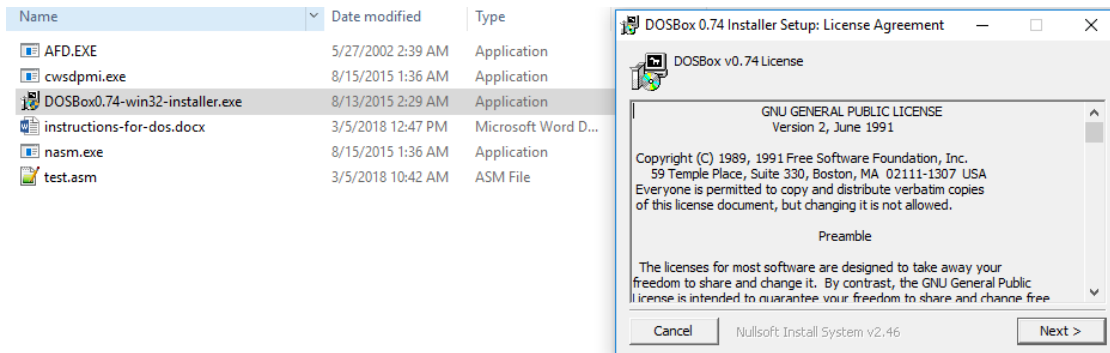


For 64-bit Operating System:

1) Run Dosbox installer.



2) Create a folder "assembly" in C drive.

Name	Date modified	Type	Size
assembly	3/5/2018 12:25 PM	File folder	
emu8086	3/5/2018 12:28 PM	File folder	
Intel	10/31/2017 11:16 ...	File folder	
PerfLogs	3/19/2017 2:03 AM	File folder	
Program Files	2/20/2018 1:45 PM	File folder	
Program Files (x86)	3/2/2018 3:14 PM	File folder	
Users	2/27/2018 3:18 PM	File folder	
Windows	12/29/2017 9:54 AM	File folder	

3) Copy

1. nasm.exe
2. cwsdpmi.exe
3. afd.exe

in C:/assembly.

This PC > OS_Source (C:) > assembly

Name	Date modified	Type	Size
AFD.EXE	5/27/2002 2:39 AM	Application	82 KB
cwsdpmi.exe	8/15/2015 1:36 AM	Application	21 KB
nasm.exe	8/15/2015 1:36 AM	Application	818 KB
test.asm	3/5/2018 11:46 AM	ASM File	1 KB
TEST.COM	3/5/2018 12:25 PM	MS-DOS Applicati...	1 KB

4) Open notepad file and copy sample code in it and save it as test.asm in C:/assembly.

Sample code:

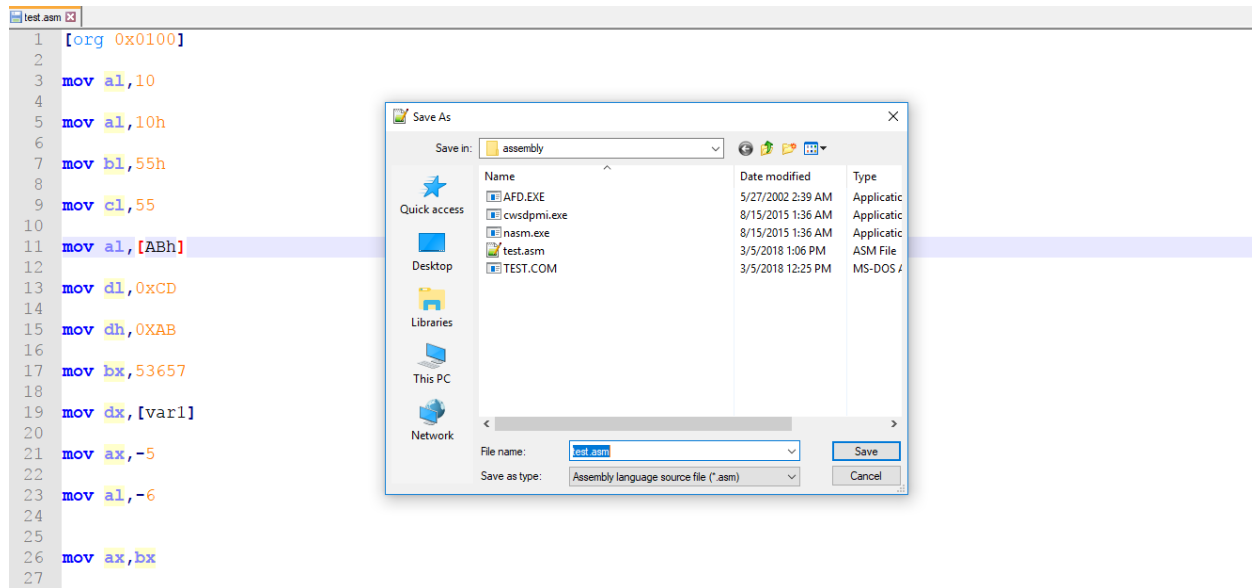
```
[org 0x0100]

mov al,10
mov al,10h
mov bl,55h
mov cl,55
mov al,[ABh]
mov dl,0xCD
mov dh,0xAB
mov bx,53657
mov dx,[var1]
mov ax,-5
mov al,-6
mov ax,bx
mov dx,cx

mov ax,0x4c00
int 21h

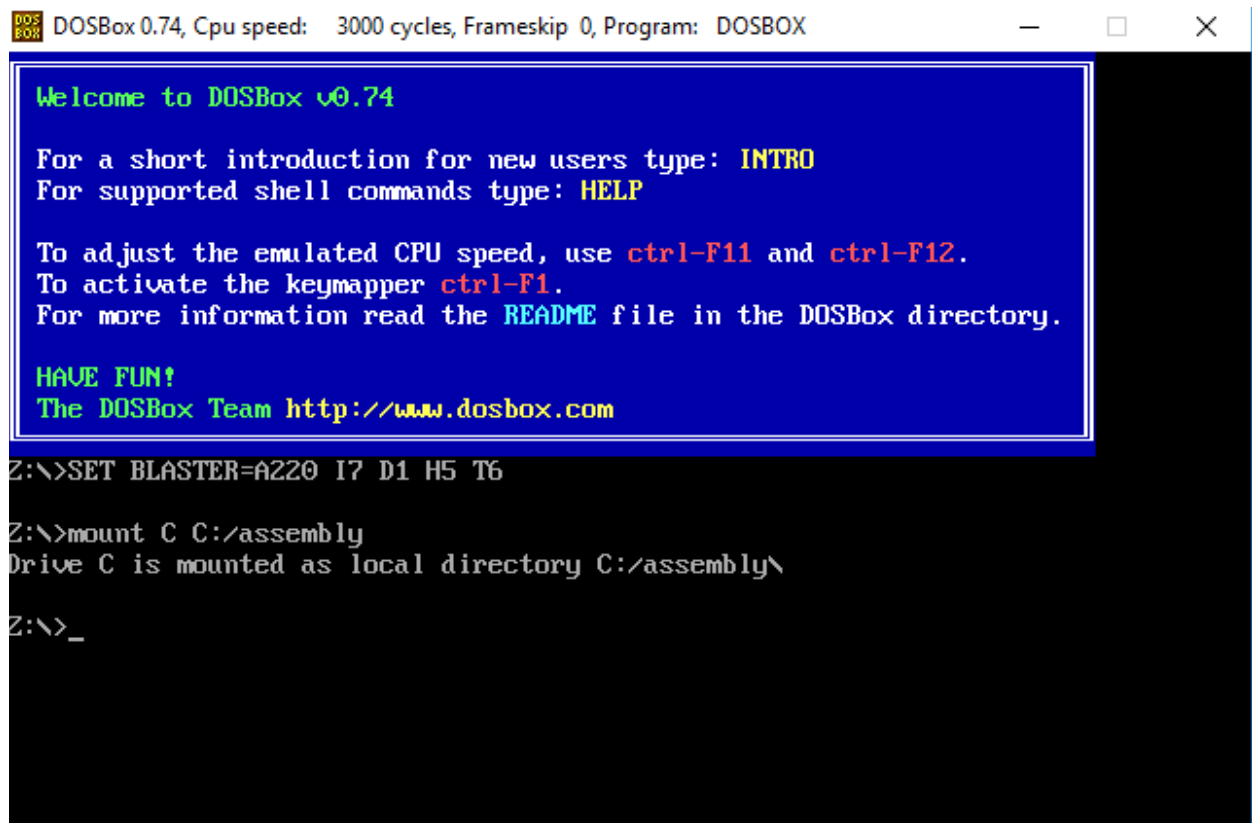
ABh: db 70

var1: dw 0xE5F6
```

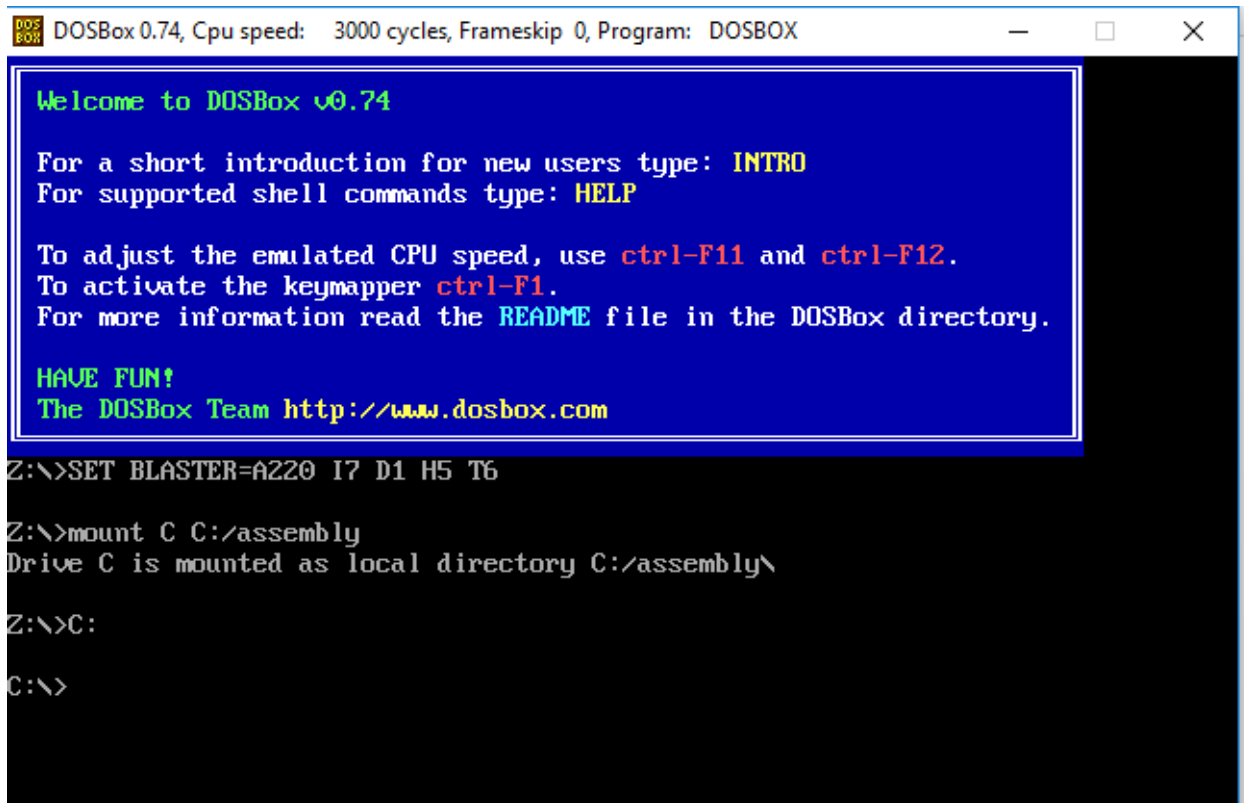


5) Now run Dosbox.

6) In dosbox window type **MOUNT C C:/assembly** . This will mount drive C and local directory C:/assembly will be formed.



7) In dosbox window type **C:** and press enter.



The screenshot shows a DOSBox 0.74 window. The title bar reads "DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX". The main window has a blue background with white text. A welcome message is displayed, followed by instructions for new users. Below the message, the command "SET BLASTER=A220 I7 D1 H5 T6" is entered at the prompt "Z:\>". Then, the command "mount C C:/assembly" is entered, and a message "Drive C is mounted as local directory C:/assembly\" is shown. Finally, the command "C:" is entered at the prompt "Z:\>C:", and the prompt changes to "C:\>".

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

Welcome to DOSBox v0.74

For a short introduction for new users type: INTRO
For supported shell commands type: HELP

To adjust the emulated CPU speed, use ctrl-F11 and ctrl-F12.
To activate the keymapper ctrl-F1.
For more information read the README file in the DOSBox directory.

HAVE FUN!
The DOSBox Team http://www.dosbox.com

Z:\>SET BLASTER=A220 I7 D1 H5 T6

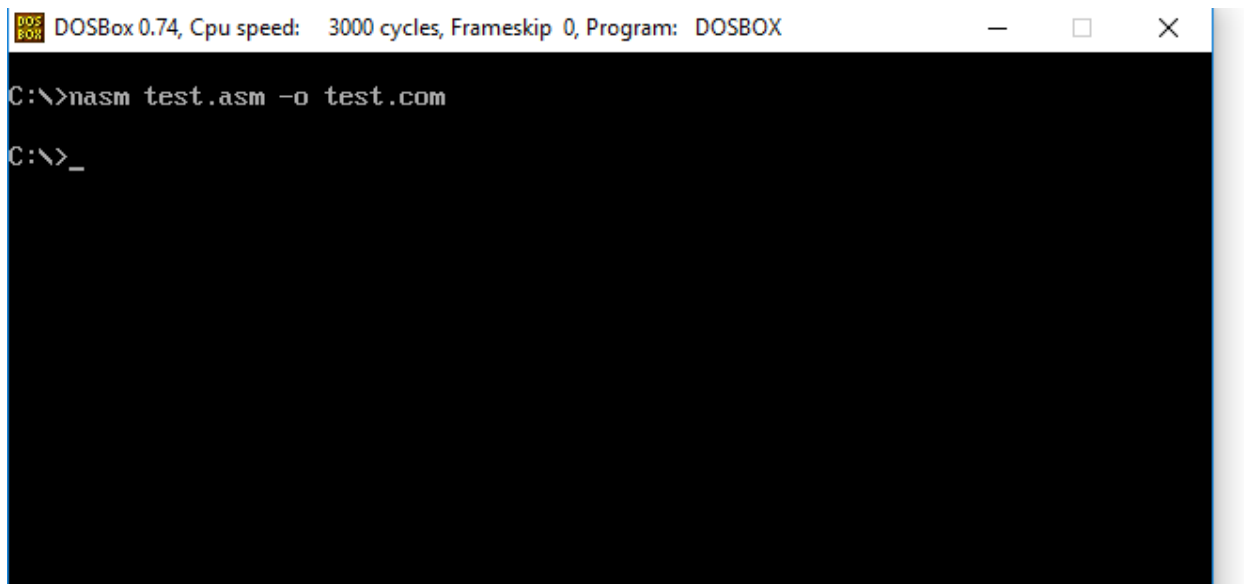
Z:\>mount C C:/assembly
Drive C is mounted as local directory C:/assembly\

Z:\>C:

C:\>
```

For Assembler and Debugger usage:

1) In dosbox window type **nasm test.asm -o test.com**. This will assemble the file test.asm and test.com will be created.



The screenshot shows a DOSBox 0.74 window. The title bar reads "DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX". The main window has a black background with white text. The command "nasm test.asm -o test.com" is entered at the prompt "C:\>". The prompt then changes to "C:\>_".

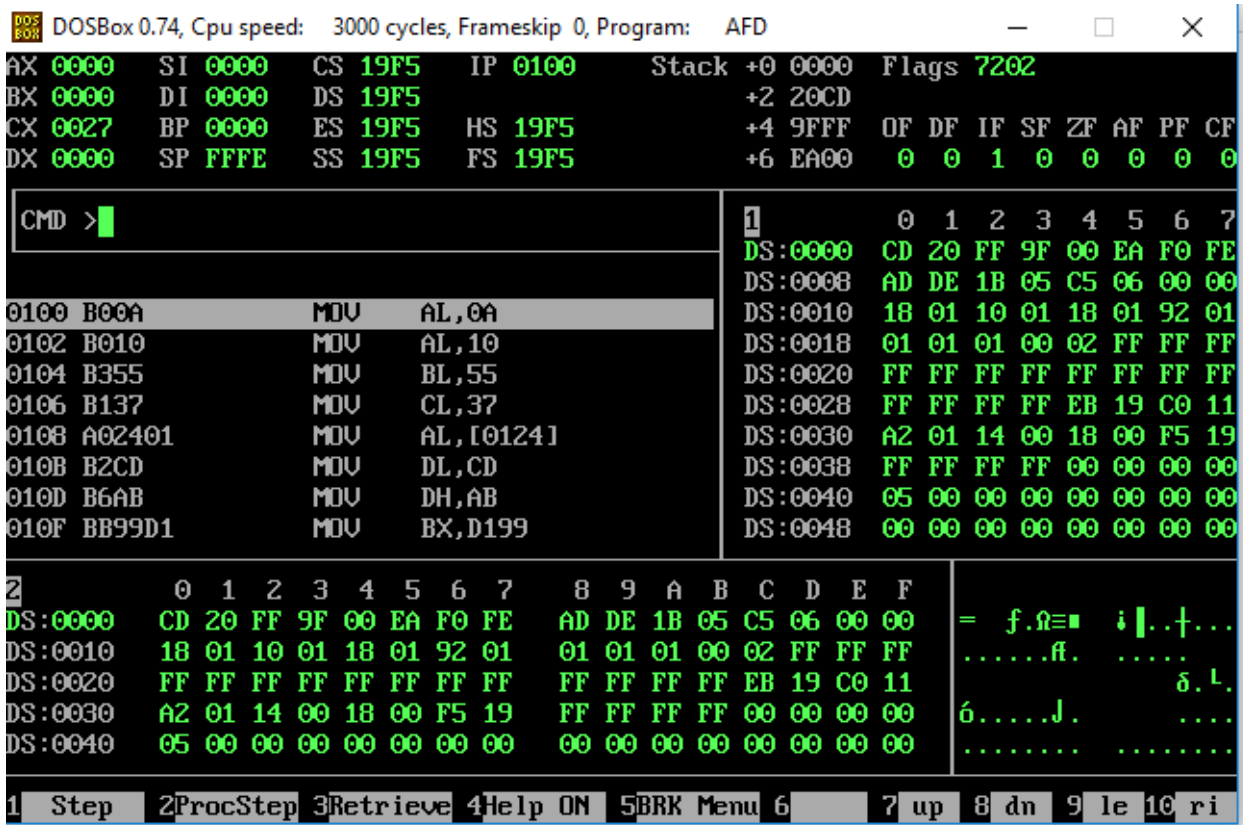
```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX

C:\>nasm test.asm -o test.com

C:\>_
```

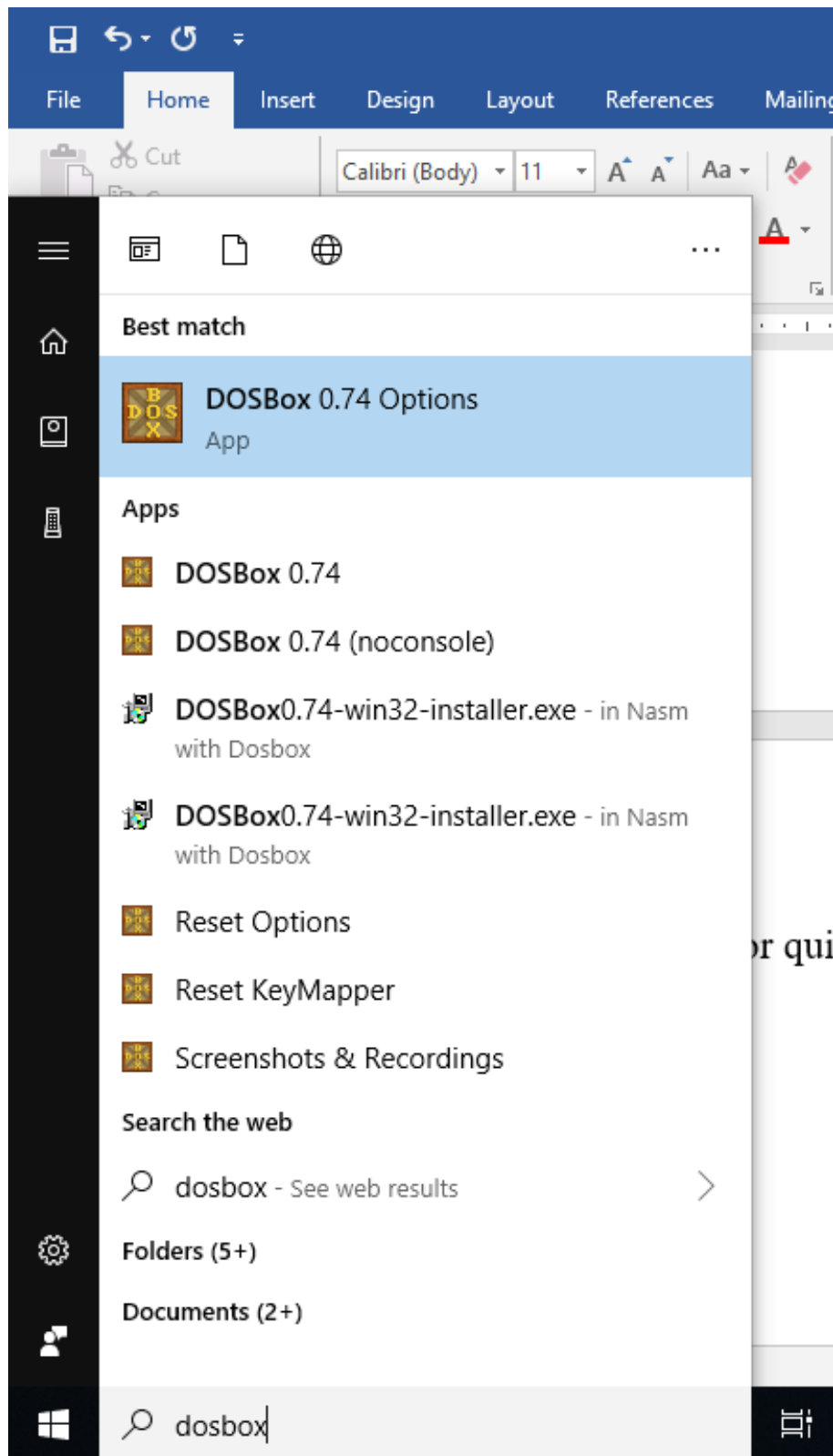
2) Finally type **afd test.com**. Debugger will open and you can test your code there.

```
DOSBox 0.74, Cpu speed: 3000 cycles, Fra
C:\>nasm test.asm -o test.com
C:\>afd test.com
```

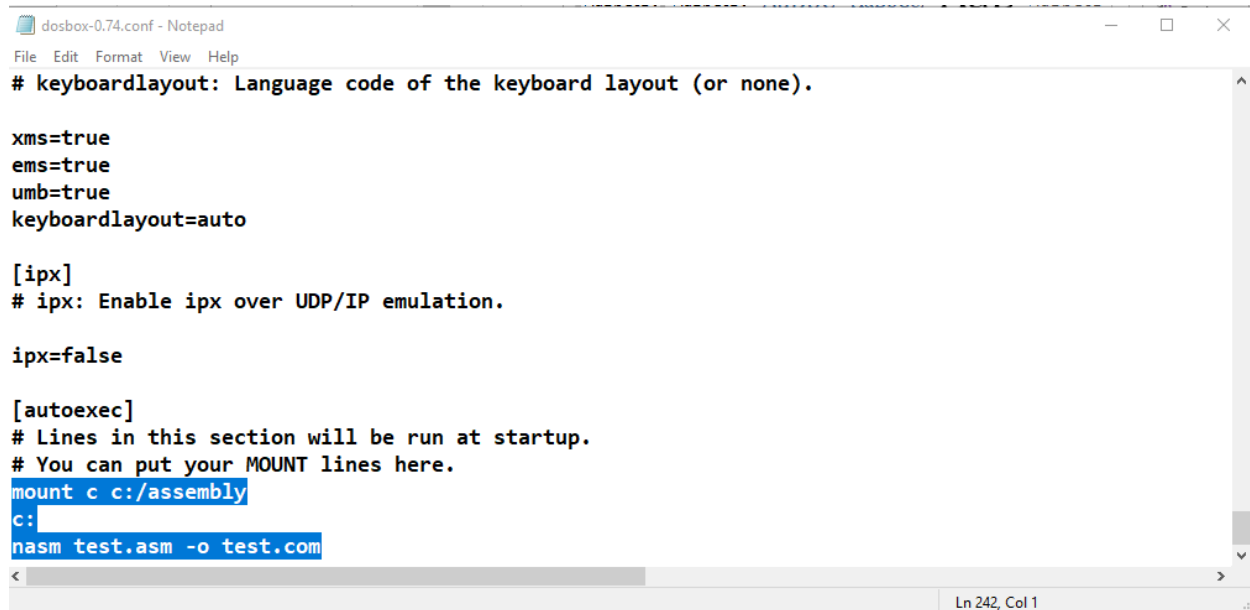


4. Strike **F1** to execute code step by step.

For quick access:



Hit enter and write at the end of the config file as mentioned below.



```
dosbox-0.74.conf - Notepad
File Edit Format View Help
# keyboardlayout: Language code of the keyboard layout (or none).

xms=true
ems=true
umb=true
keyboardlayout=auto

[ipx]
# ipx: Enable ipx over UDP/IP emulation.

ipx=false

[autoexec]
# Lines in this section will be run at startup.
# You can put your MOUNT lines here.
mount c c:/assembly
c:
nasm test.asm -o test.com
```

Ln 242, Col 1

