ASSEMBLY
8086 TASM

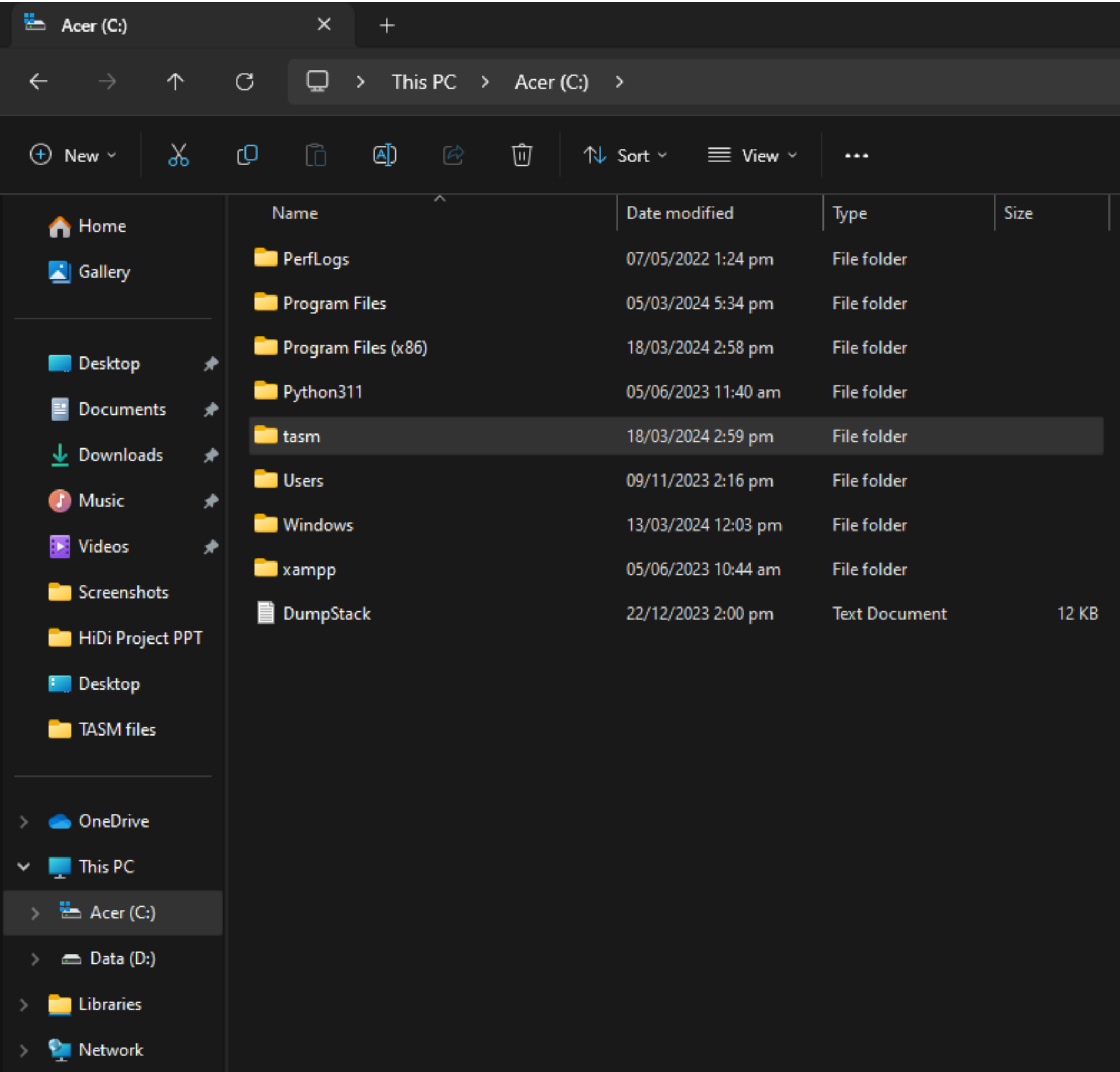## INSTALLATION AND GUIDES

Start

Download and Install

Step 1: Click here to download TASM

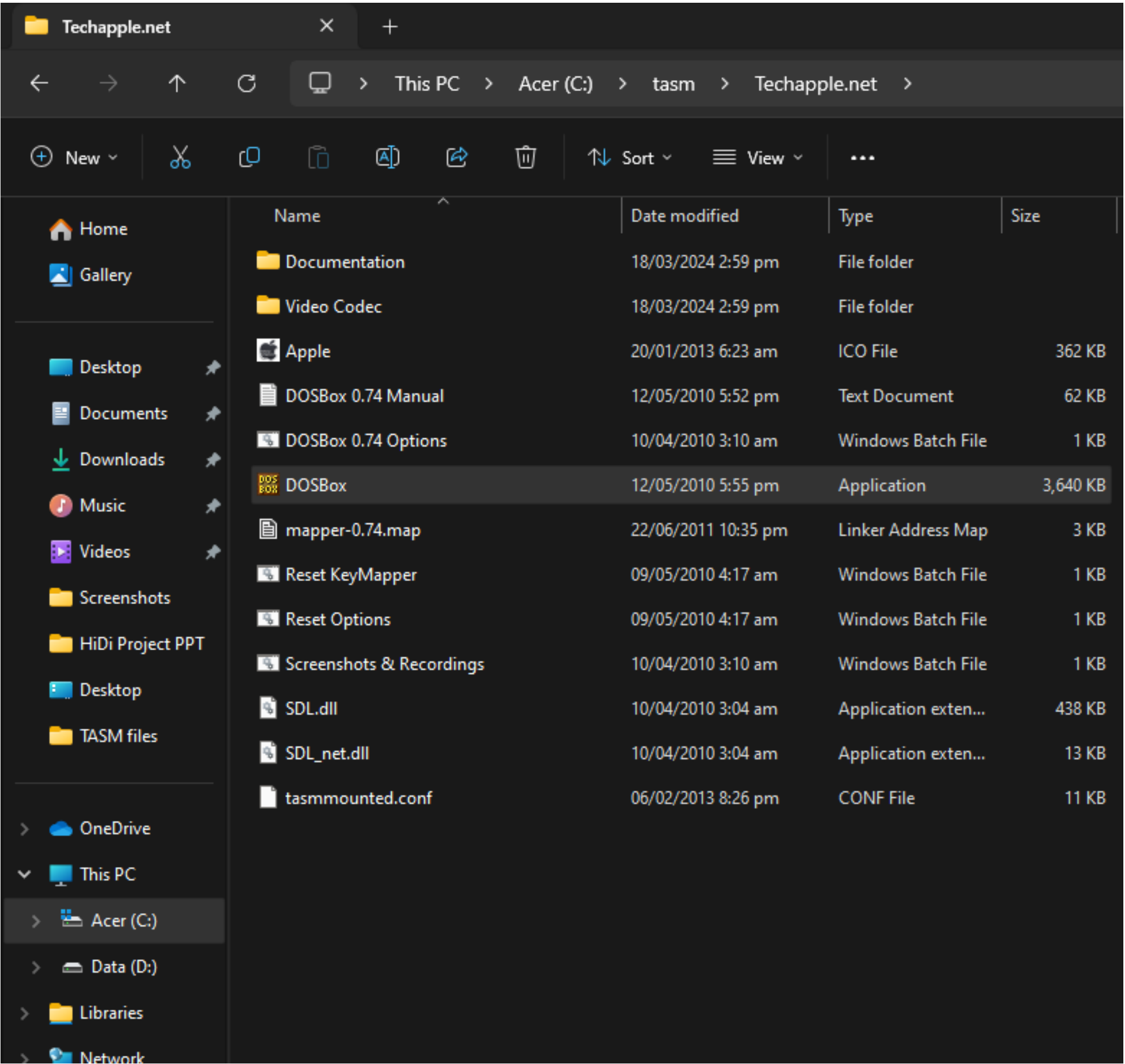**Step 2:** Install Tasm 1.4 Windows 7-Windows 8 64 bit Techapple.net

Step 3: After installing, find the Tasm 1.4 folder on Drive C:

Step 4: Rename folder into "tasm"

Set-up Configuration

Step 5: Open "tasm" folder from Drive C:

Step 6: Open Techapple.net folder

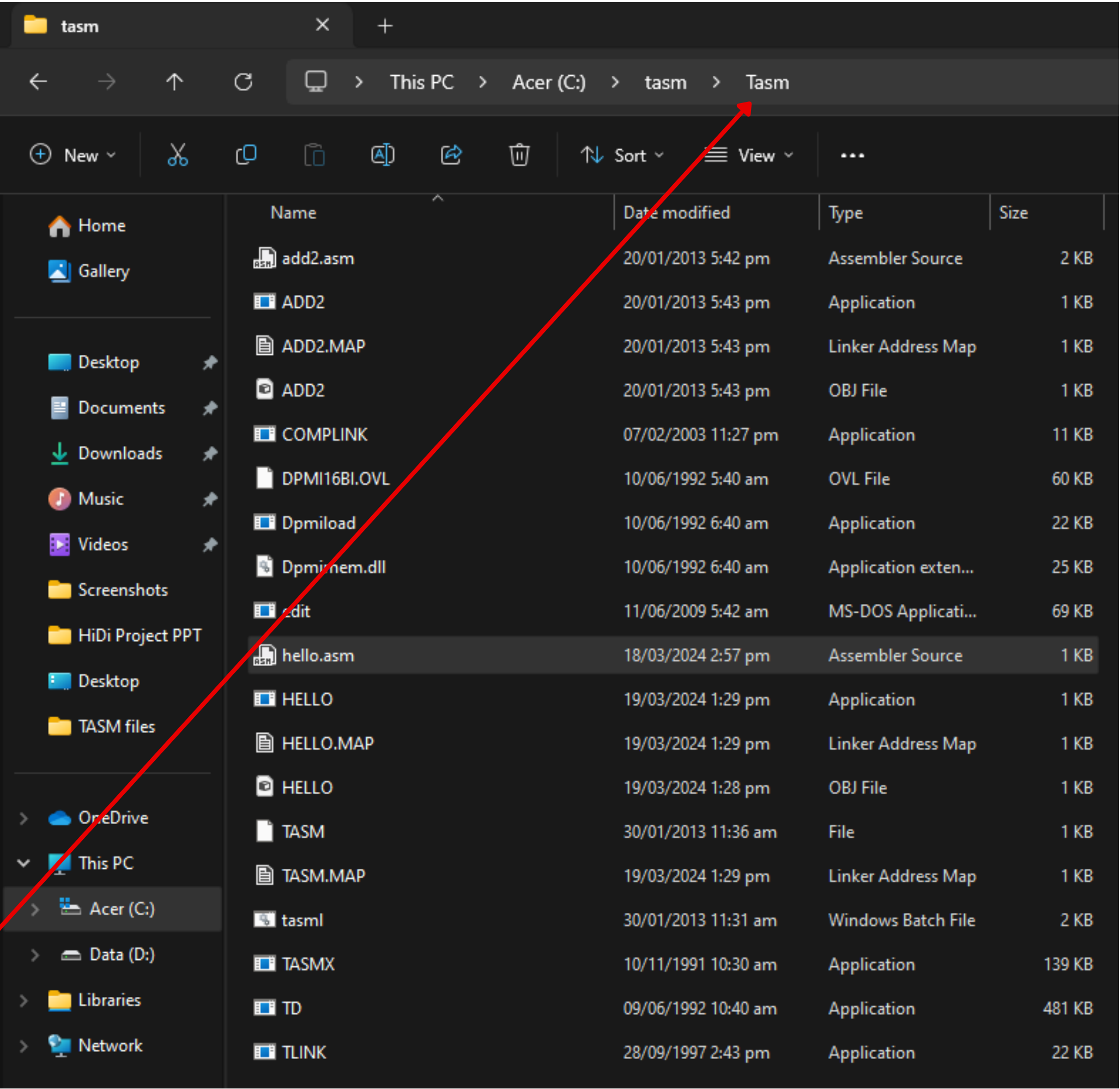**Step 7:** Click and Open DOSBox application file

Download and Install

Step 8: Open notepad application and type the ff code;
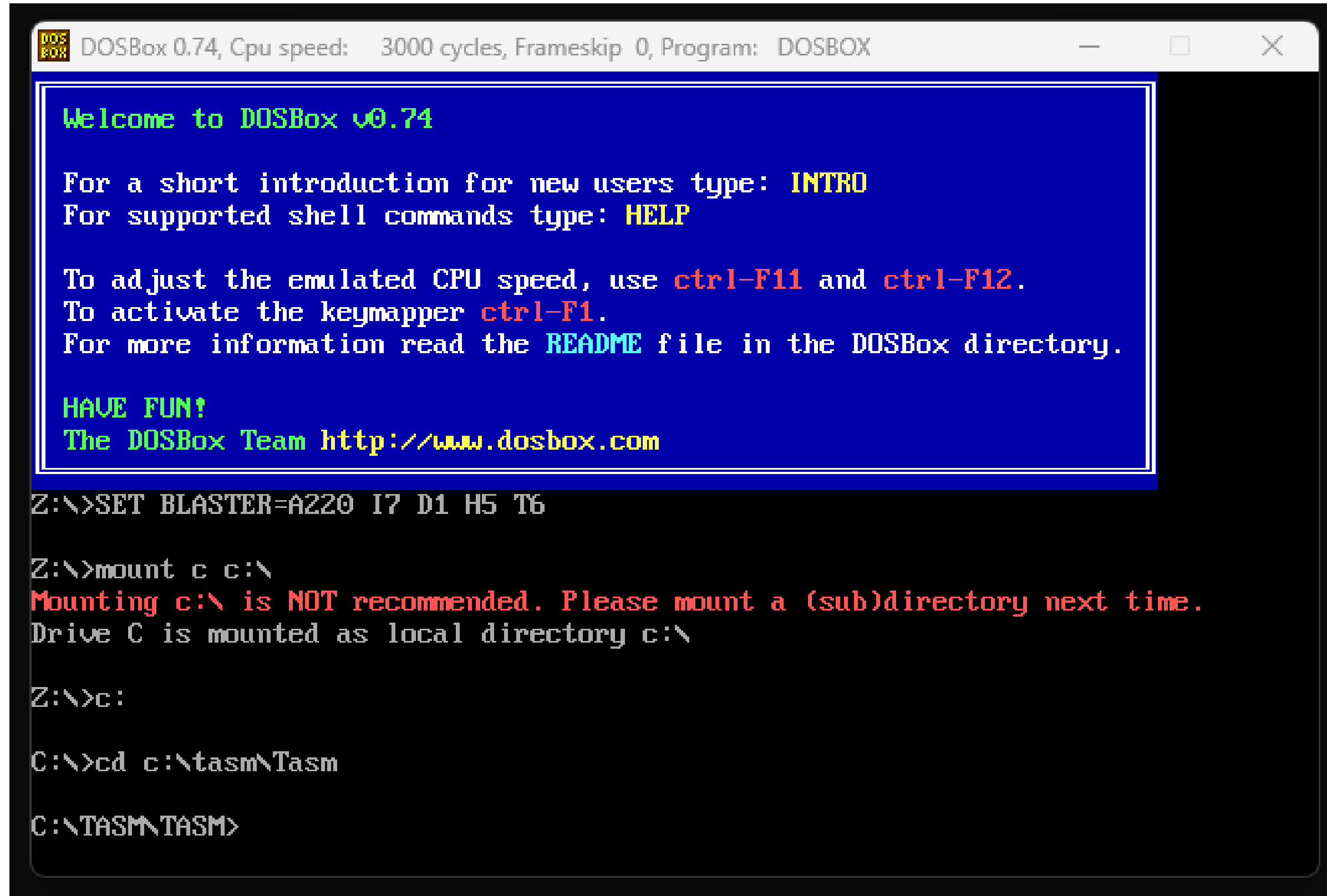
```
.model small
.stack 100h
.data
    hello db 'Hello, World!$'
.code
    mov ax, @data
    mov ds, ax
    lea dx, hello
    mov ah, 09h
    int 21h
    mov ah, 4ch
    int 21h
end
```

Step 9: Save the document as "hello.asm" on Tasm folder (not the main folder "tasm")

Execute Sample Program

Step 10: On the DOSBox application, type in the ff;

This part is about replacing the z:\ path to c:\tasm\Tasm where our assembly program is stored

```
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:\
Mounting c:\ is NOT recommended. Please mount a (sub)directory next time.
Drive C is mounted as local directory c:\

Z:\>c:

C:\>cd c:\tasm\Tasm

C:\TASM\TASM>
```

Assemble and Link

Step 11: After establishing the path, type the following commands;

tasm <yourfilename>
tlink <yourfilename>
<yourfilename>

```
C:\TASM\TASM>tasm hello.asm            The tasm hello.asm commands creates OBJ file
Turbo Assembler  Version 3.0  Copyright (c) 1988, 1991 Borland International

Assembling file:    hello.asm
Error messages:     None
Warning messages:   None            You can see the number of error here
Passes:             1
Remaining memory:   476k



C:\TASM\TASM>tlink hello            The tlink hello create the linker address map file and exe file
Turbo Link  Version 2.0  Copyright (c) 1987, 1988 Borland International

C:\TASM\TASM>hello            Calling the file name executes the program
Hello, World!
C:\TASM\TASM>s_
```

APPENDIX

hello.asm	19/03/2024 2:11 pm	Assembler Source	1 KB
HELLO	19/03/2024 2:12 pm	Application	1 KB
HELLO.MAP	19/03/2024 2:12 pm	Linker Address Map	1 KB
HELLO	19/03/2024 2:11 pm	OBJ File	1 KB

You should be able to produce these 4 document files for the assembly program

THANK YOU

Assembly x86

End