

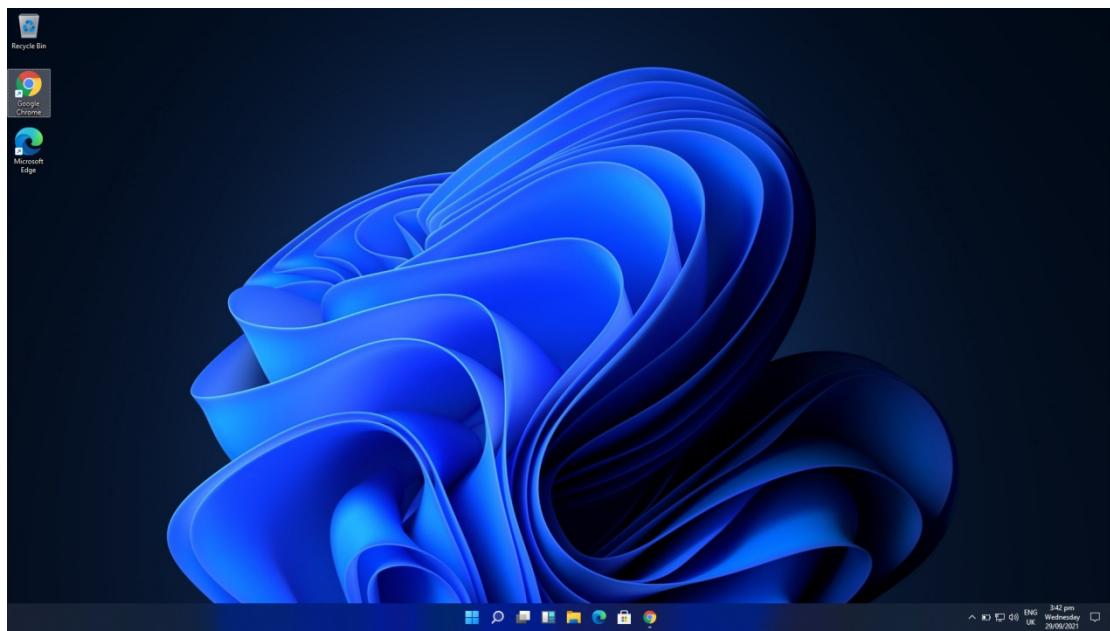
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Roll No : 20P-0147
Section : 3B
Course : COAL Lab**

Now we will see how to install MASM in windows .

Step 1:

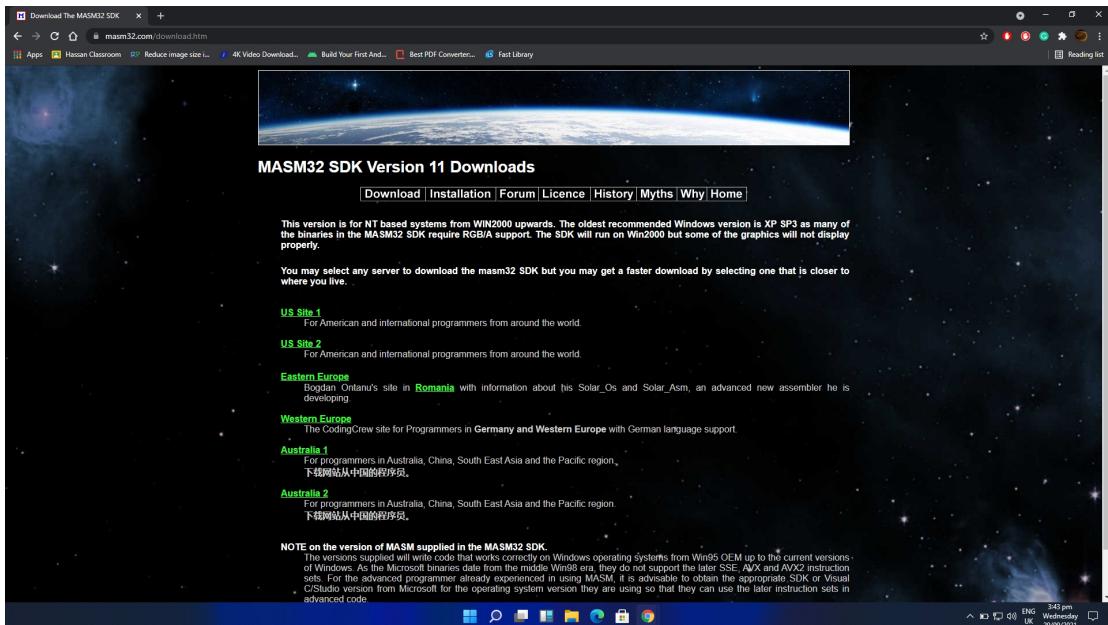
First you need to go your browser and download MASM and go to this link

<https://www.masm32.com/>

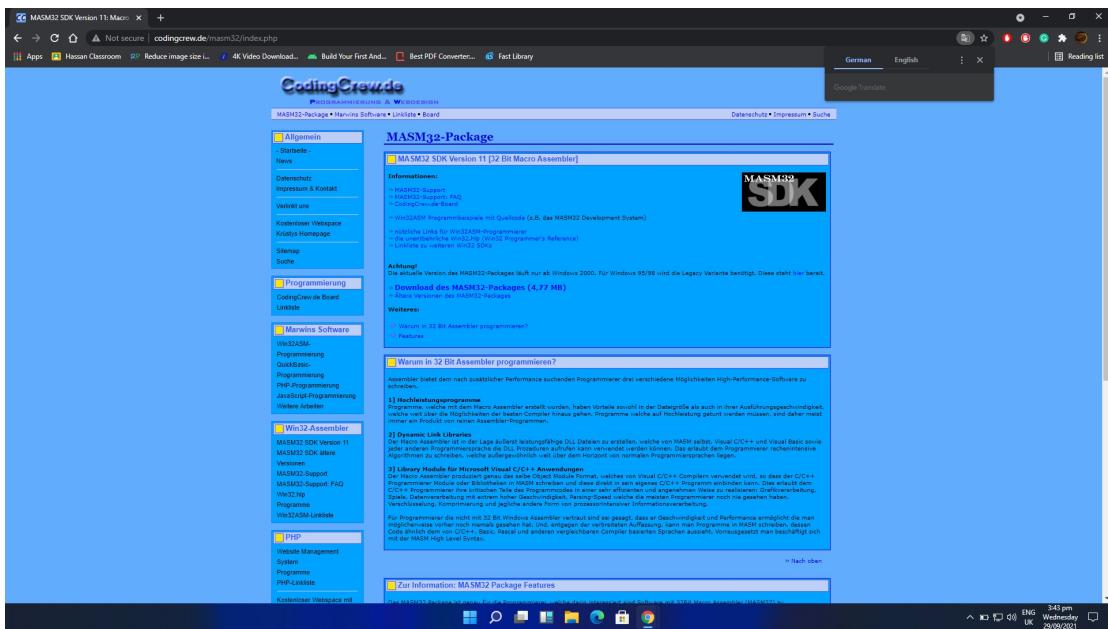


Step 2:

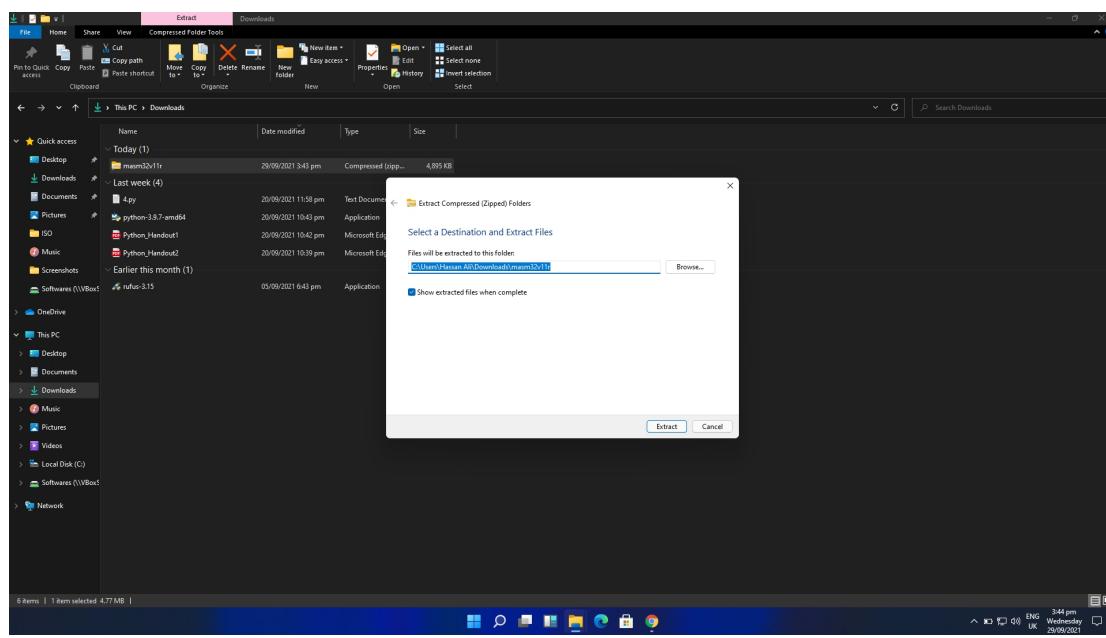
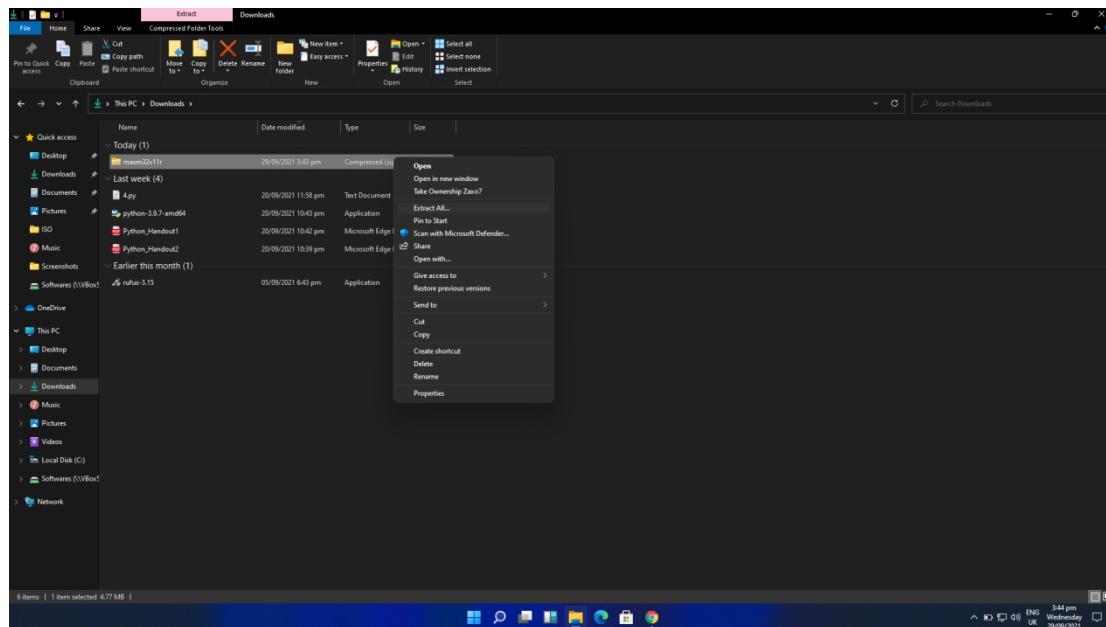
After that Click on download and then click on western europe



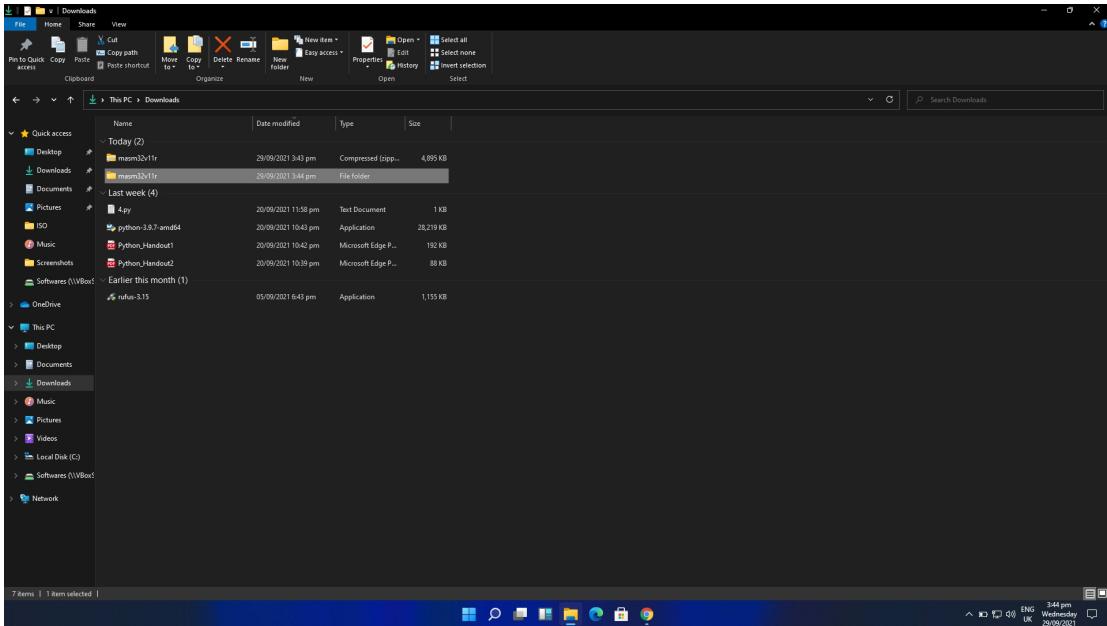
Step 3: Now Click on Download Dos MASM32



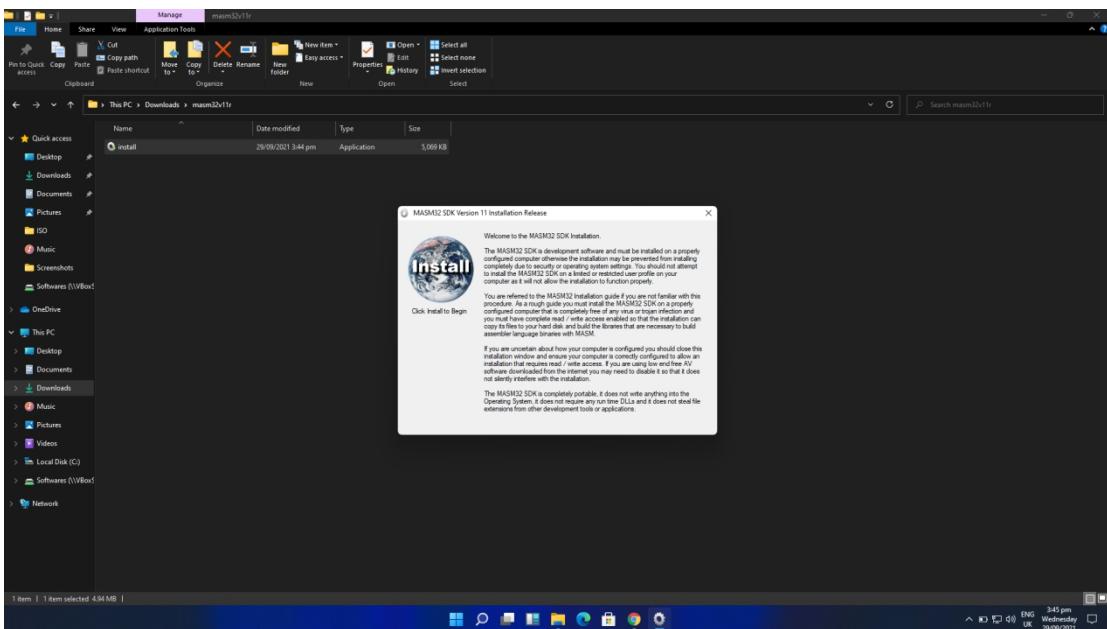
Step 4: Now Open File explorer and go to downloads folder and extract that downloaded file



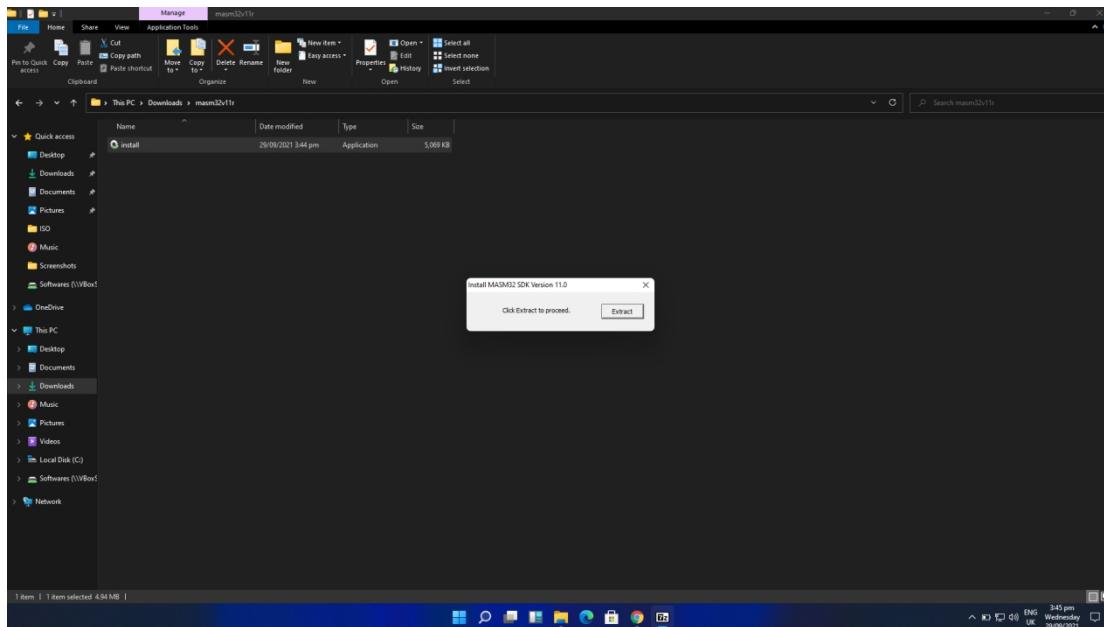
Step 5: Now after extracting the file open that folder



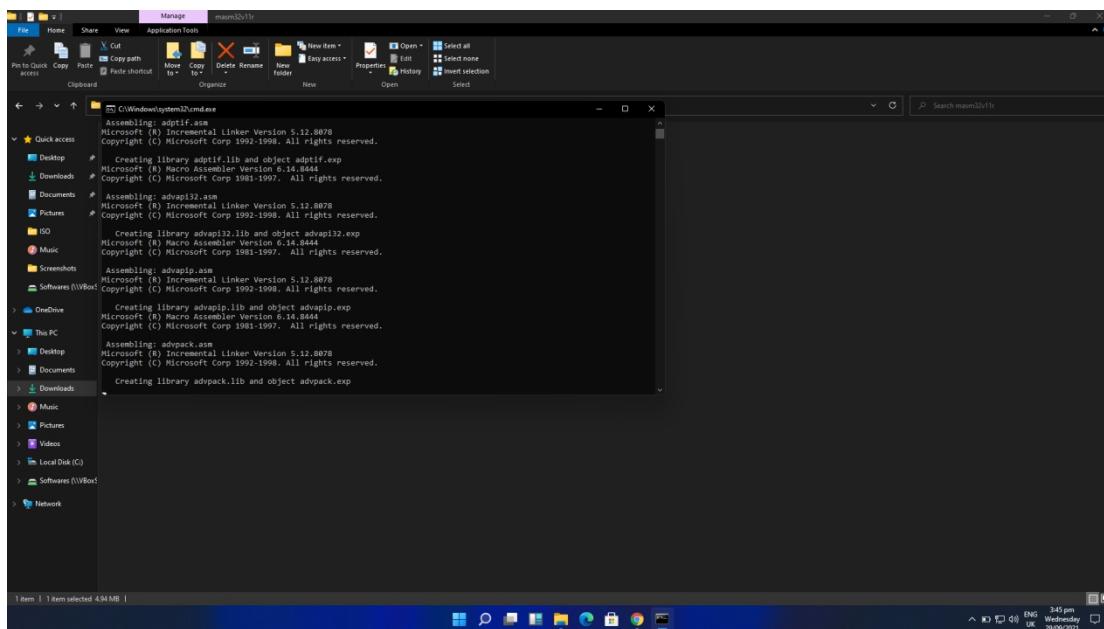
Step 6: Now the program name (Install) and click on Install



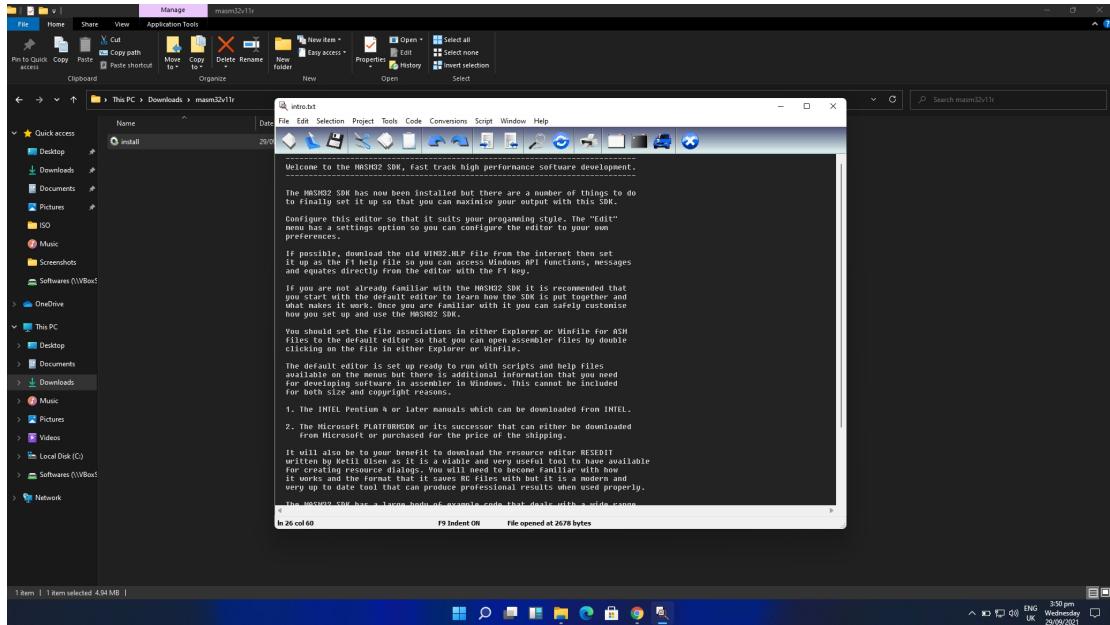
Step 7 : Now click on extract



Step 8: After clicking that set up your path give any path like i have given Drive C



Now Installation was completed and masm open



Step 8: Now we have to run some Assembly code on masm so i have give code below so u just copy and paste in masm

Code :

```
.386
.model flat, stdcall
option casemap:none

include \masm32\include\windows.inc
include \masm32\include\kernel32.inc
includelib \masm32\lib\kernel32.lib
include \masm32\include\user32.inc
includelib \masm32\lib\user32.lib

.data

msg db "Hello world!!!!", 0
cpt db "MY FIRST PROGRAM!!!!", 0

.code
start:

invoke MessageBox, NULL, addr msg, addr cpt, MB_OK

invoke ExitProcess, NULL

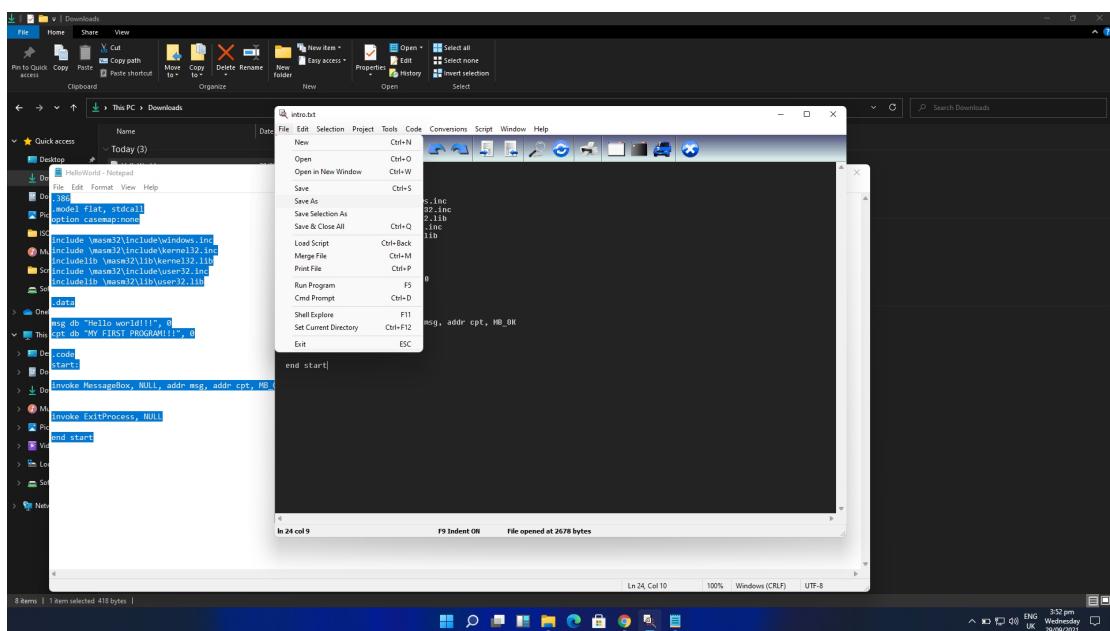
end start
```

A screenshot of a Windows desktop environment. In the foreground, a Notepad window titled 'intro.txt' displays assembly code:

```
.086  
.model Flat, stdcall  
.option casemap:none  
include 'windows2\include\windows.inc'  
include 'windows2\include\kernel32.inc'  
include 'windows2\include\user32.inc'  
include 'windows2\include\user32.lib'  
include 'kernel32\kernel32.lib'  
include 'user32\user32.lib'  
include 'user32\user32.dll'  
  
.data  
msg db "Hello world!!!", 0  
cpt db "MY FIRST PROGRAM!!!", 0  
  
.code  
start:  
    invoke MessageBox, NULL, addr msg, addr cpt, MB_OK  
  
    invoke ExitProcess, NULL  
  
end start
```

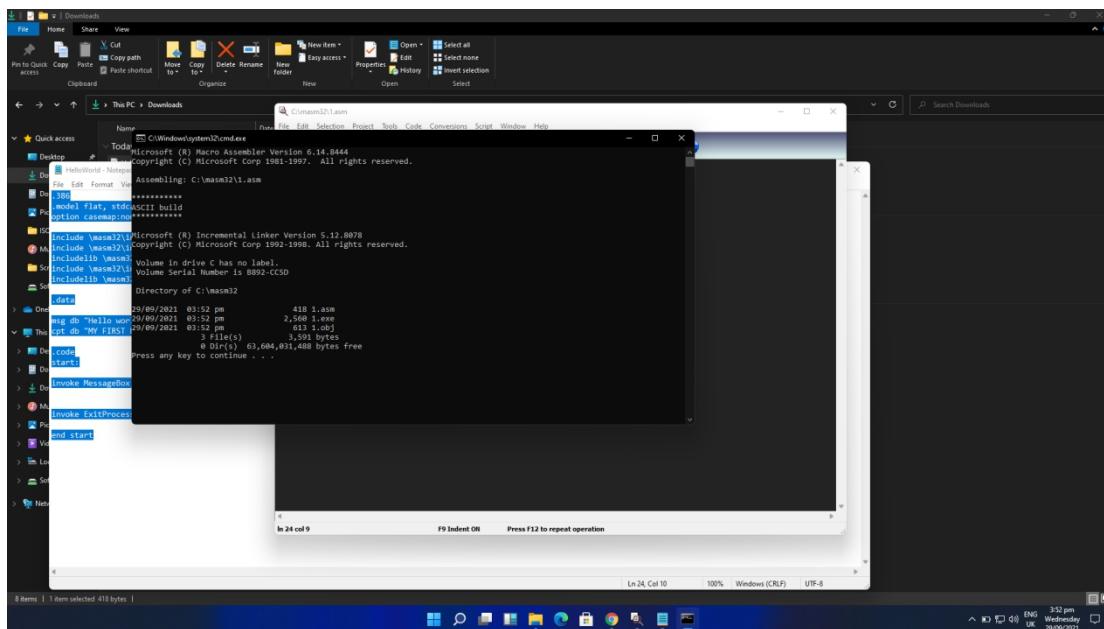
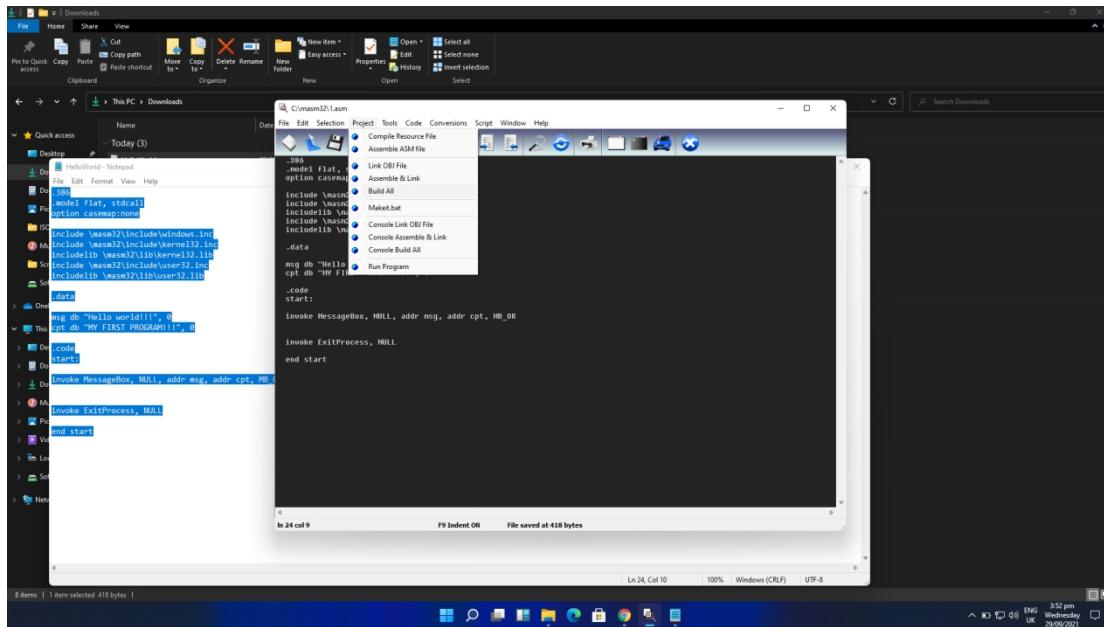
The background shows a file explorer window with a folder structure under 'This PC > Downloads'. The assembly code file 'intro.txt' is selected. The taskbar at the bottom includes icons for File Explorer, Task View, Start, Taskbar settings, and several pinned applications.

save as .asm in any directory



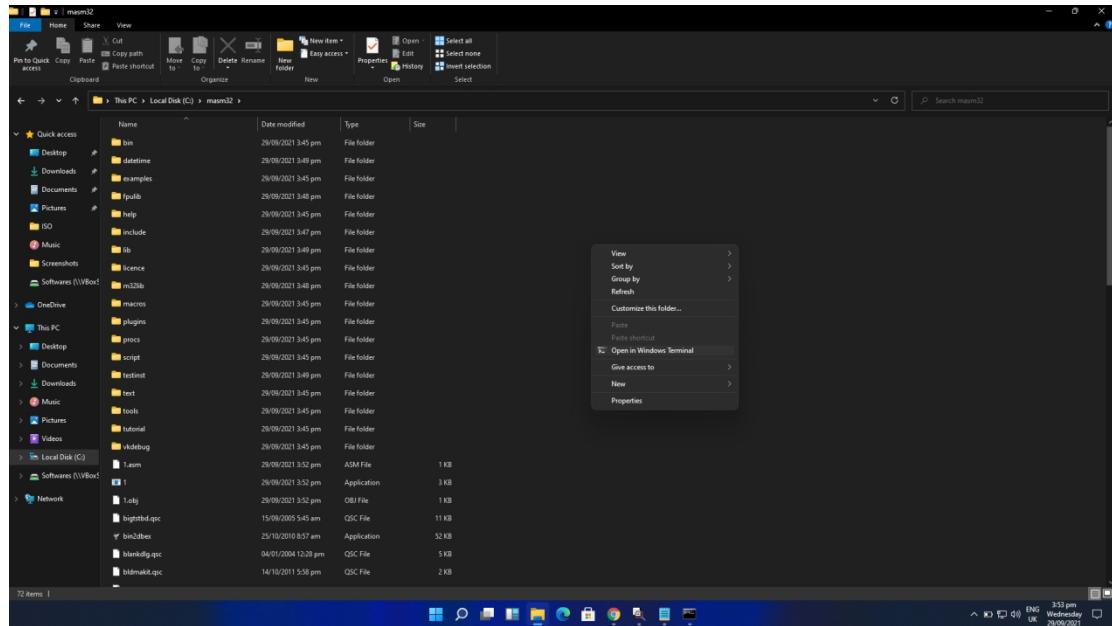
Step 9:

Now click on option project and there click on build all



Step 10:

After that go to that folder in which you save the .asm file and then right click there and open click on option open in terminal



Step 11:

And then just type your file name and hit enter and then you will see output of your file

