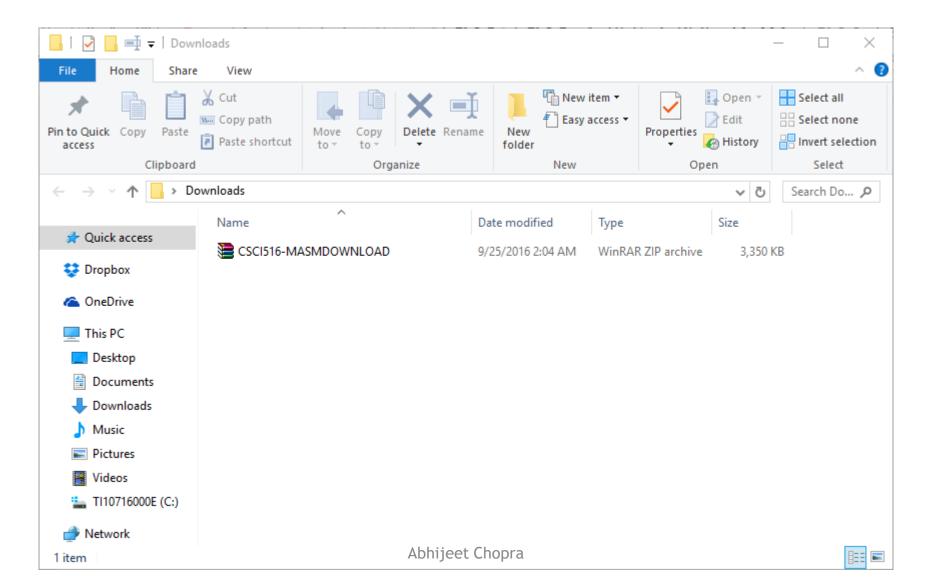
Masm615 setup

Abhijeet Chopra

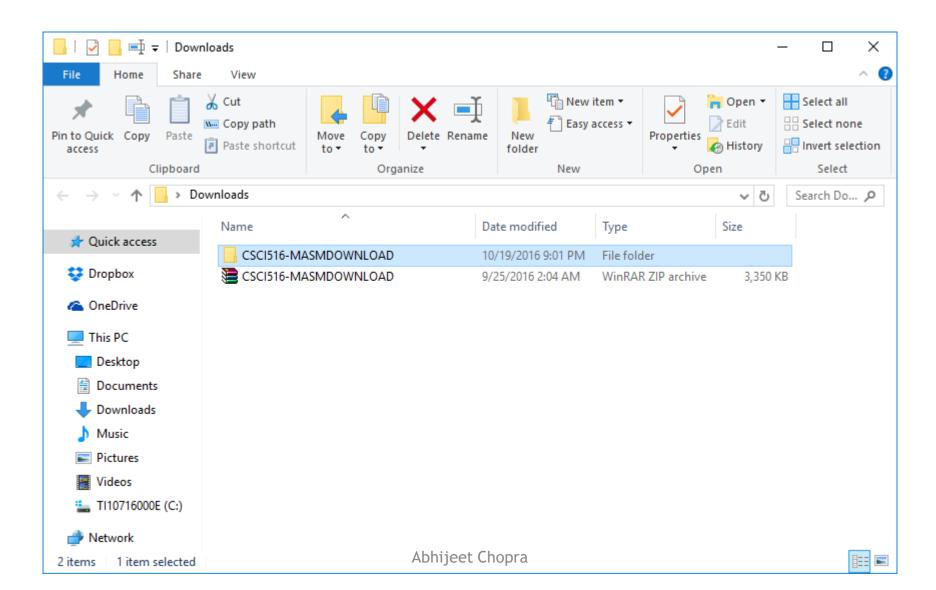
CSCI 516 Fall 2016

Texas A&M University-Commerce

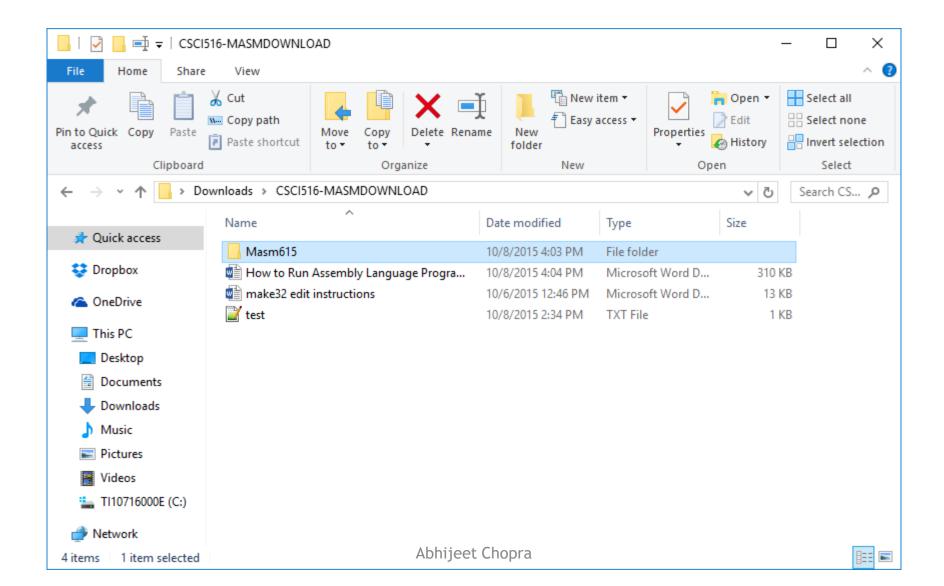
Download the zip file named "CSCI516-MASMDOWNLOAD.zip" file from your course Dropbox in eCollege.



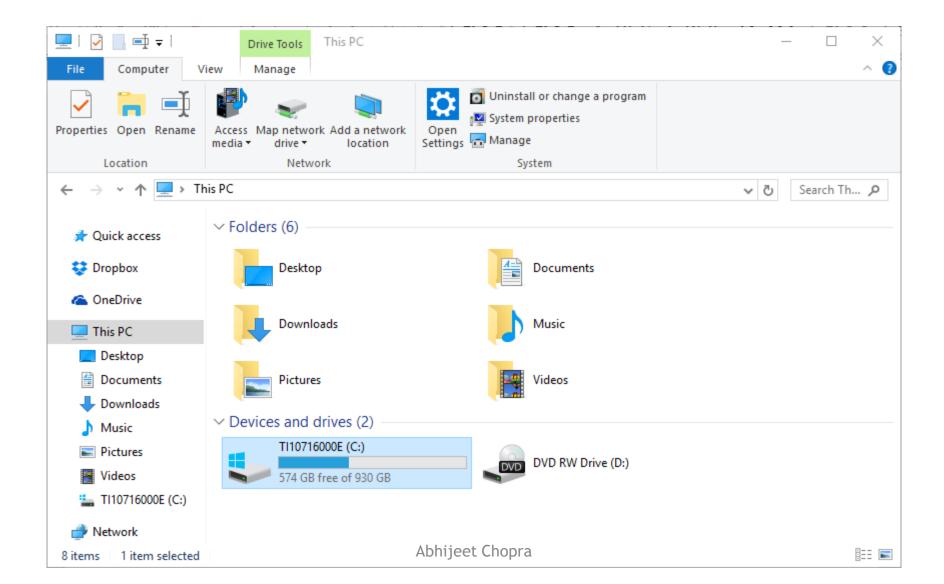
Extract the contents of the zip file.



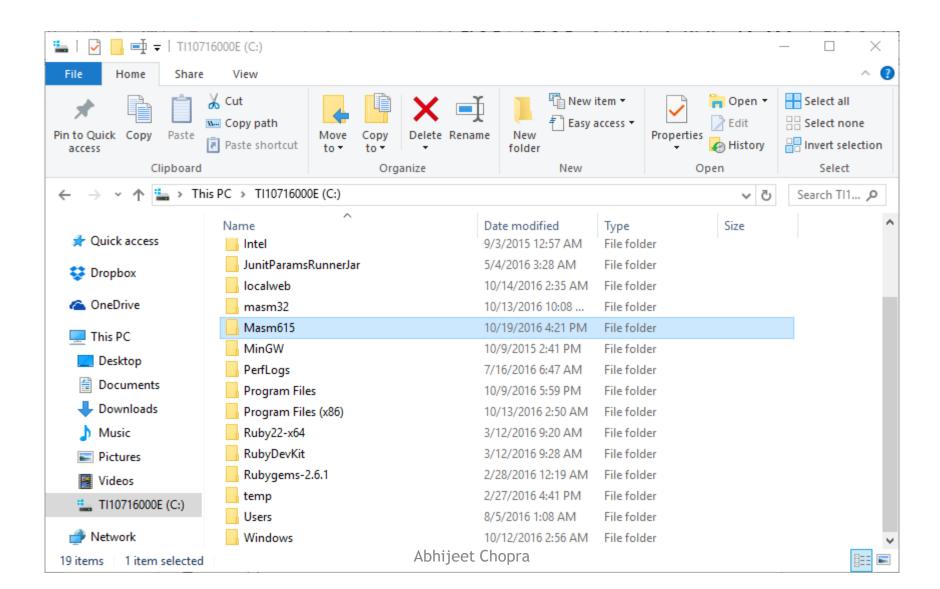
Copy/Cut the folder named "Masm615".



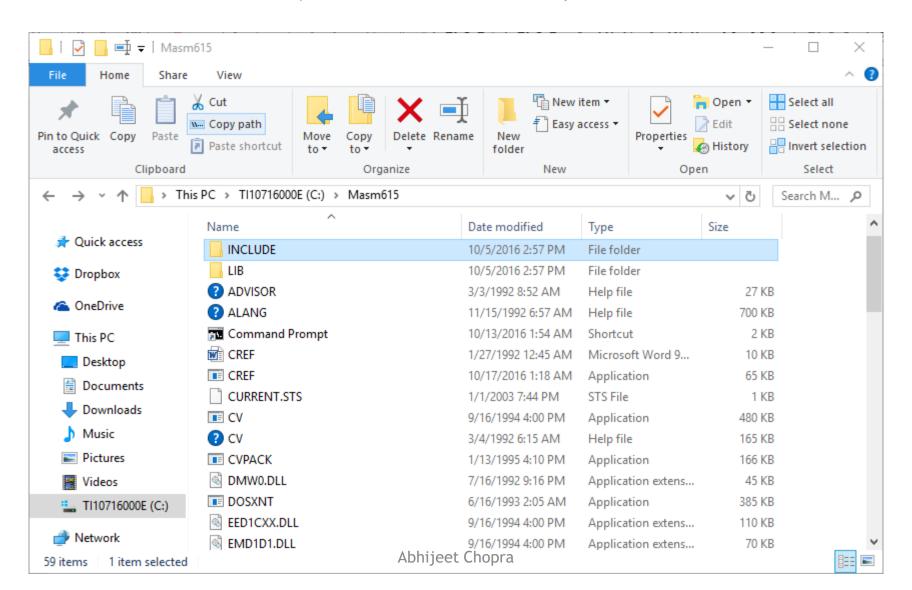
Open the C: Drive in your computer.



Paste the previously copied folder "Masm616" in the C: Drive.



Open this folder named "Masm615". All Assembly code (.asm) files should be placed in this directory/folder in order to be compiled and executed.



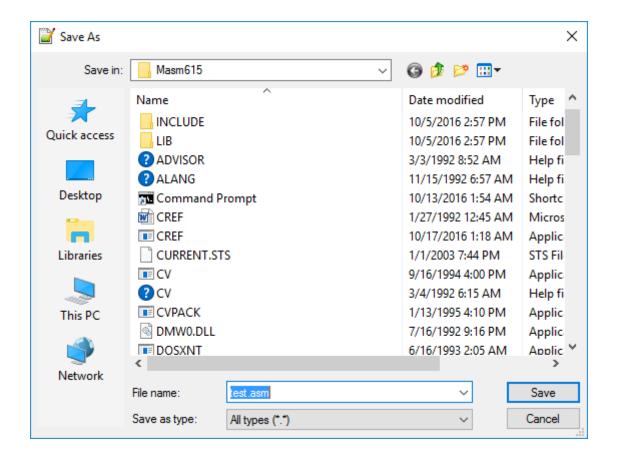
Copy the following code.

```
INCLUDE Irvine32.inc
.DATA
message BYTE "Hello world!",0
.CODE
main PROC
mov edx,Offset message
call WriteString
exit
main ENDP
END main
```

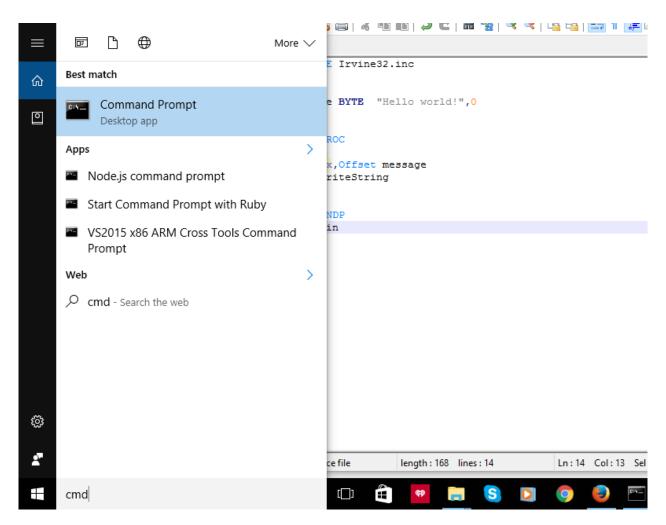
Create a new file in any text editor and paste the code.

```
C:\Masm615\test.asm - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
🕞 🖆 💾 🖺 🥛 😘 📥 | 🔏 🐚 🖿 | Þ 🖒 👛 🗷 🗷 🖛 🔩 🕒 🔍 🕞 📑 🕦 🖺 💹 💋 🗁 🥶
🔚 test.asm 🔀
         INCLUDE Irvine32.inc
  2
  3
         .DATA
  4
         message BYTE "Hello world!",0
  5
  6
         .CODE
         main PROC
  8
         mov edx, Offset message
  9
         call WriteString
 10
 11
 12
         exit
 13
         main ENDP
 14
         END main
```

Save the file with the name and extension "test.asm" in the folder "Masm615".



Click on the windows/start button and type "cmd" in the search bar. Click on the "Command Prompt" app to open it.



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Command Prompt window is open as shown below.

```
Command Prompt
                                                                                                               ×
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
C:\Users\abhij>
```

Type "cd/" and press enter.

```
Command Prompt
                                                                                                       X
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
C:\Users\abhij>cd/
```

The current directory changes to C:\

```
X
 Command Prompt
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
C:\Users\abhij>cd/
C:\>
```

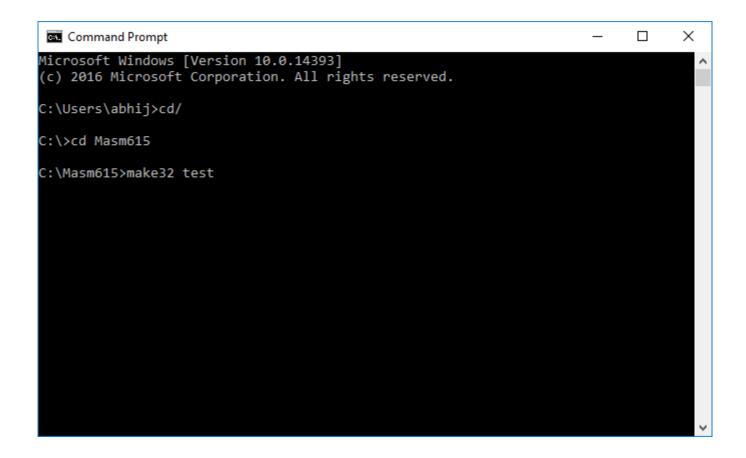
Type "cd Masm615" and press enter.

```
Command Prompt
                                                                                                   X
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
C:\Users\abhij>cd/
C:\>cd Masm615
```

The current directory changes to C:\Masm615.

```
Command Prompt
                                                                                                 ×
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
C:\Users\abhij>cd/
C:\>cd Masm615
C:\Masm615>
```

Type "make32 test" and press enter.



NOTE: Command to compile assembly code file (.asm) is

C:\Masm615>make32 < filename_without_extension>
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If compiled successfully, the following output is displayed. An executable file (.exe) is created. Press any key.

```
Command Prompt - make32 test
                                                             ×
                                                        Assembling: test.asm
Volume in drive C is TI10716000E
Volume Serial Number is 00B1-4071
Directory of C:\Masm615
10/19/2016 09:12 PM
                          168 test.asm
                   28,708 test.exe
10/19/2016 10:10 PM
10/19/2016 10:10 PM
                      15,132 test.lst
                   6,934 test.map
10/19/2016 10:10 PM
10/19/2016 10:10 PM
                      91,136 test.pdb
           7 File(s) 179,121 bytes
           0 Dir(s) 616,980,951,040 bytes free
Press any key to continue . . .
```

After pressing a key control returns to the Command Prompt.

```
×
 Command Prompt
                                                                 Assembling: test.asm
Volume in drive C is TI10716000E
 Volume Serial Number is 00B1-4071
Directory of C:\Masm615
10/19/2016 09:12 PM
                              168 test.asm
                      28,708 test.exe
10/19/2016 10:16 PM
10/19/2016 10:16 PM 33,300 test.ilk
10/19/2016 10:16 PM
10/19/2016 10:16 PM
                        15,132 test.lst
6,934 test.map
10/19/2016 10:16 PM 3,743 test.obj
0 Dir(s) 616,981,147,648 bytes free
Press any key to continue . . .
C:\Masm615>
```

Type "test" (the file name without extension) to execute the program.

```
Command Prompt
                                                      ×
Assembling: test.asm
Volume in drive C is TI10716000E
Volume Serial Number is 00B1-4071
Directory of C:\Masm615
10/19/2016 09:12 PM
                        168 test.asm
10/19/2016 10:10 PM 28,708 test.exe
10/19/2016 10:10 PM 33,300 test.ilk
10/19/2016 10:10 PM
                      15,132 test.lst
10/19/2016 10:10 PM 6,934 test.map
0 Dir(s) 616,980,951,040 bytes free
Press any key to continue . . .
C:\Masm615>test
```

NOTE: Command to run the executable file (.ext) is

C:\Masm615><filename_without_extension>
Abhijeet Chopra

The file executes and the output (in this case "Hello world!") is displayed.

```
Command Prompt
                                                      X
                                                  Assembling: test.asm
Volume in drive C is TI10716000E
Volume Serial Number is 00B1-4071
Directory of C:\Masm615
10/19/2016 09:12 PM
                       168 test.asm
10/19/2016 10:10 PM 28,708 test.exe
10/19/2016 10:10 PM
                    15,132 test.lst
10/19/2016 10:10 PM 6,934 test.map
0 Dir(s) 616,980,951,040 bytes free
Press any key to continue . . .
C:\Masm615>test
Hello world!
C:\Masm615>
```