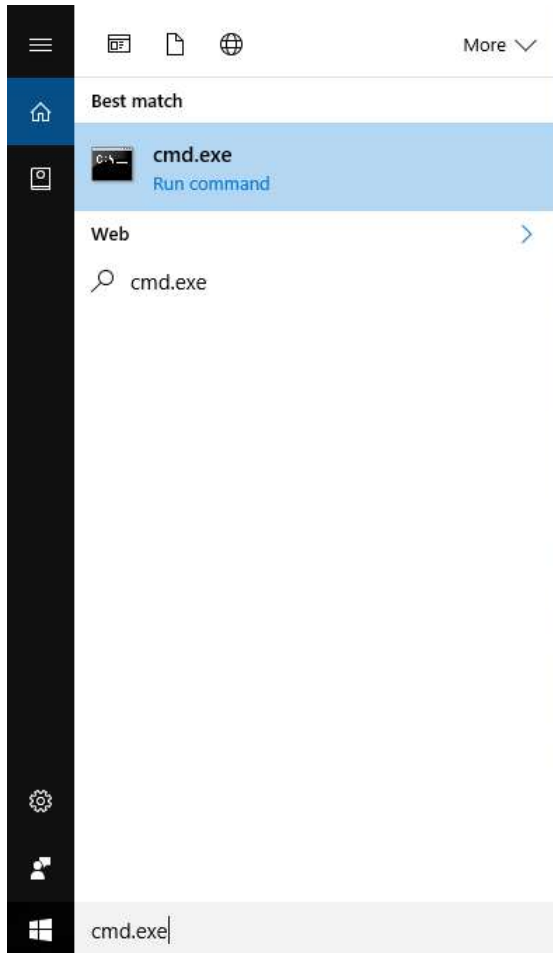
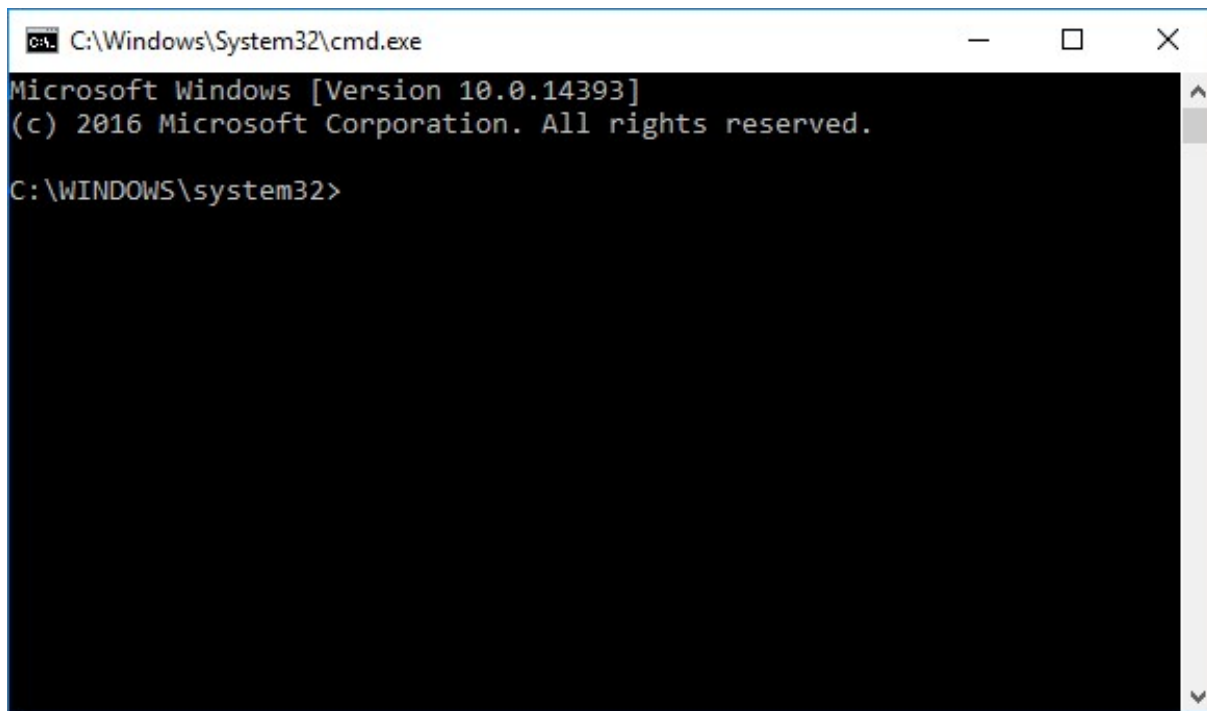


## Command Prompt (cmd.exe)

The easiest way to find command prompt is to search in the Start menu for “cmd.exe”.



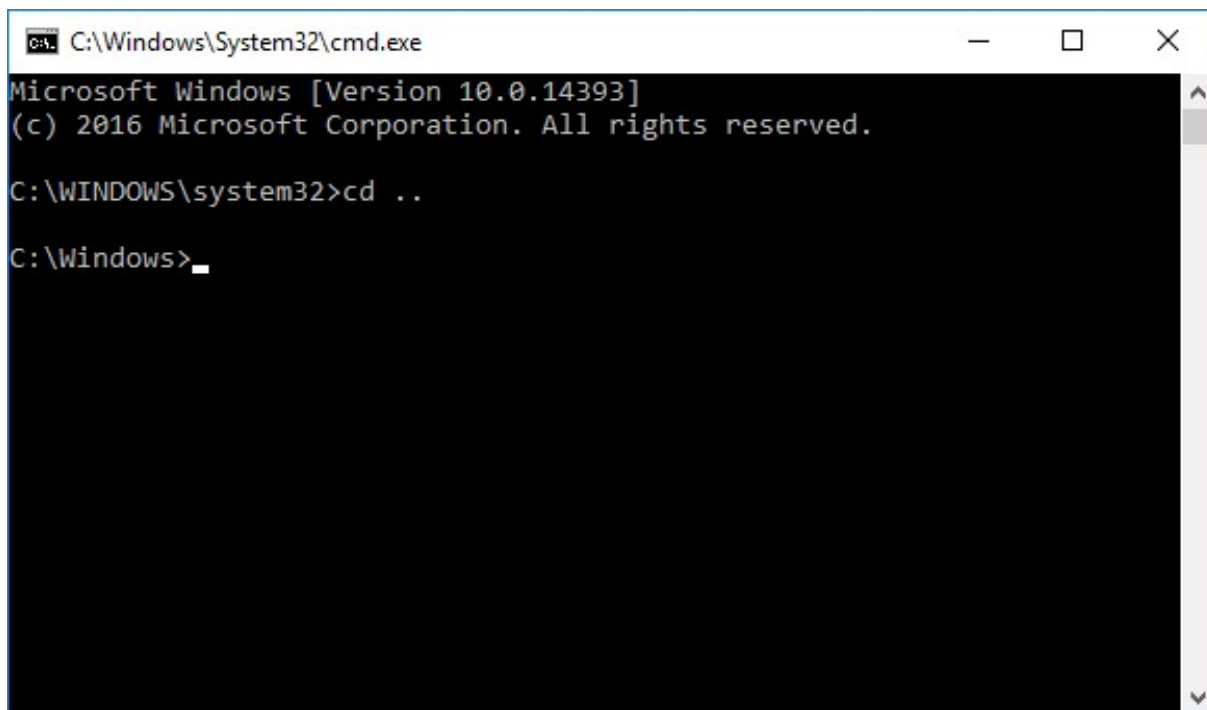
This opens up a command window as shown on next page.



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>
```

Moving Up a Directory (cd ..) The command prompt has opened in the directory “C:\WINDOWS\system32” as indicated by the prompt. In order to move up a directory level to “C:\WINDOWS”, enter “cd ..”. Here “cd” is meant to stand for “change directory” and “..” is a special name given to the directory above the current one.



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

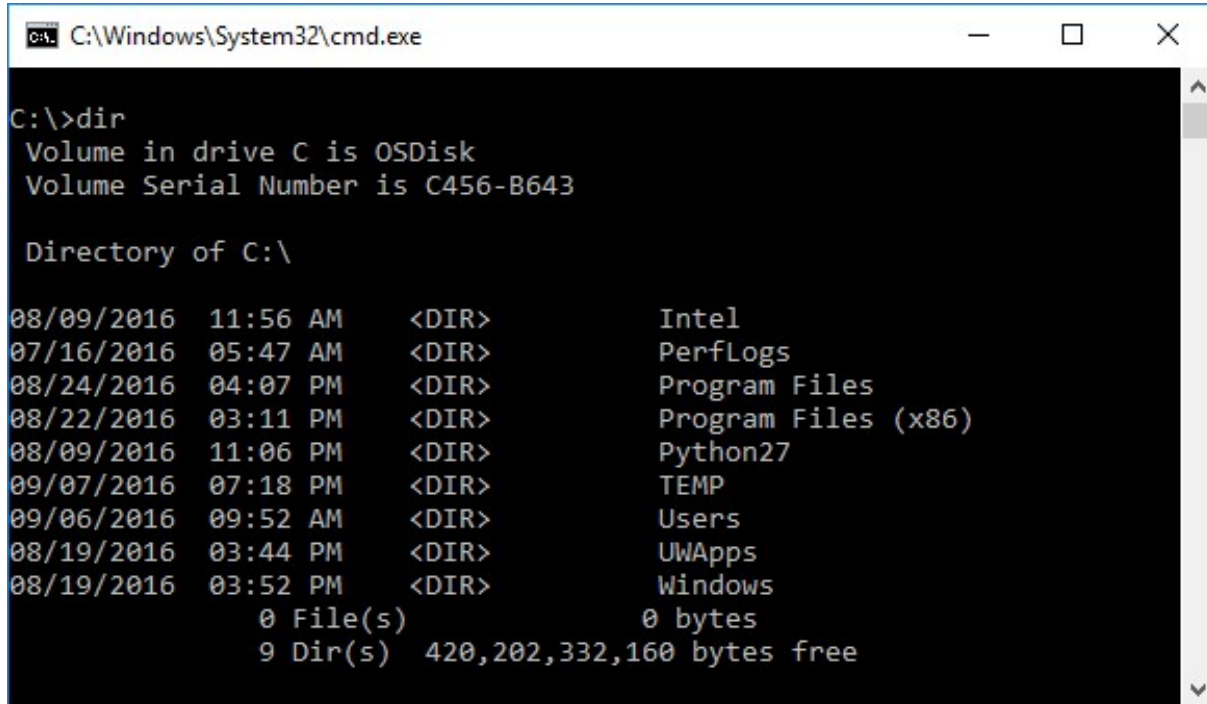
C:\WINDOWS\system32>cd ..
C:\Windows>
```

Note that the path now reads “C:\Windows” instead of “C:\WINDOWS” as expected. Windows file systems are not case sensitive, so these names are equivalent.

Entering “cd ..” again will take me to the directory “C:\”.

## Listing Contents (dir)

To list the contents of a directory, including subdirectories, enter “dir” (for ‘directory’).



```
C:\Windows\System32\cmd.exe

C:\>dir
Volume in drive C is OSDisk
Volume Serial Number is C456-B643

Directory of C:\

08/09/2016  11:56 AM    <DIR>          Intel
07/16/2016  05:47 AM    <DIR>          PerfLogs
08/24/2016  04:07 PM    <DIR>          Program Files
08/22/2016  03:11 PM    <DIR>          Program Files (x86)
08/09/2016  11:06 PM    <DIR>          Python27
09/07/2016  07:18 PM    <DIR>          TEMP
09/06/2016  09:52 AM    <DIR>          Users
08/19/2016  03:44 PM    <DIR>          UWApps
08/19/2016  03:52 PM    <DIR>          Windows
                0 File(s)                0 bytes
                9 Dir(s)  420,202,332,160 bytes free
```

## Changing to a Subdirectory (cd {name} )

In order to move to a subdirectory, type “cd {name}” where {name} would be replaced by the name of the subdirectory (relative to the current one). In this case, I’ve changed to “C:\TEMP” by typing “cd TEMP”. Since windows file systems are not case sensitive, “cd temp” would have worked just as well.

```
08/24/2016 04:07 PM <DIR> Program Files
08/22/2016 03:11 PM <DIR> Program Files (x86)
08/09/2016 11:06 PM <DIR> Python27
09/07/2016 07:18 PM <DIR> TEMP
09/06/2016 09:52 AM <DIR> Users
08/19/2016 03:44 PM <DIR> UWAps
08/19/2016 03:52 PM <DIR> Windows
          0 File(s)          0 bytes
          9 Dir(s) 420,202,332,160 bytes free

C:\>cd TEMP

C:\TEMP>_
```

Entering “cd ConsoleApplication1\Debug” will take me two levels down, to “C:\TEMP\ConsoleApplication1\Debug”, where the executable for my program resides.

```
08/24/2016 04:07 PM <DIR> Program Files
08/22/2016 03:11 PM <DIR> Program Files (x86)
08/09/2016 11:06 PM <DIR> Python27
09/07/2016 07:18 PM <DIR> TEMP
09/06/2016 09:52 AM <DIR> Users
08/19/2016 03:44 PM <DIR> UWAps
08/19/2016 03:52 PM <DIR> Windows
          0 File(s)          0 bytes
          9 Dir(s) 420,202,332,160 bytes free

C:\>cd TEMP

C:\TEMP>cd ConsoleApplication1\Debug

C:\TEMP\ConsoleApplication1\Debug>_
```

## Executing a Program by name

A program can be executing simply by typing its name – in this case “ConsoleApplication1.exe”.

```
C:\Windows\System32\cmd.exe
C:\TEMP\ConsoleApplication1\Debug>dir
Volume in drive C is OSDisk
Volume Serial Number is C456-B643

Directory of C:\TEMP\ConsoleApplication1\Debug

09/07/2016  07:03 PM    <DIR>          .
09/07/2016  07:03 PM    <DIR>          ..
09/07/2016  08:04 PM              45,568 ConsoleApplication1.exe
09/07/2016  08:04 PM             348,832 ConsoleApplication1.ilc
09/07/2016  08:04 PM             864,256 ConsoleApplication1.pdb
                3 File(s)      1,258,656 bytes
                2 Dir(s)  420,200,681,472 bytes free

C:\TEMP\ConsoleApplication1\Debug>ConsoleApplication1.exe
```

This program is similar to the one you wrote for Lab 2, so it has asked the user for input and responded accordingly.

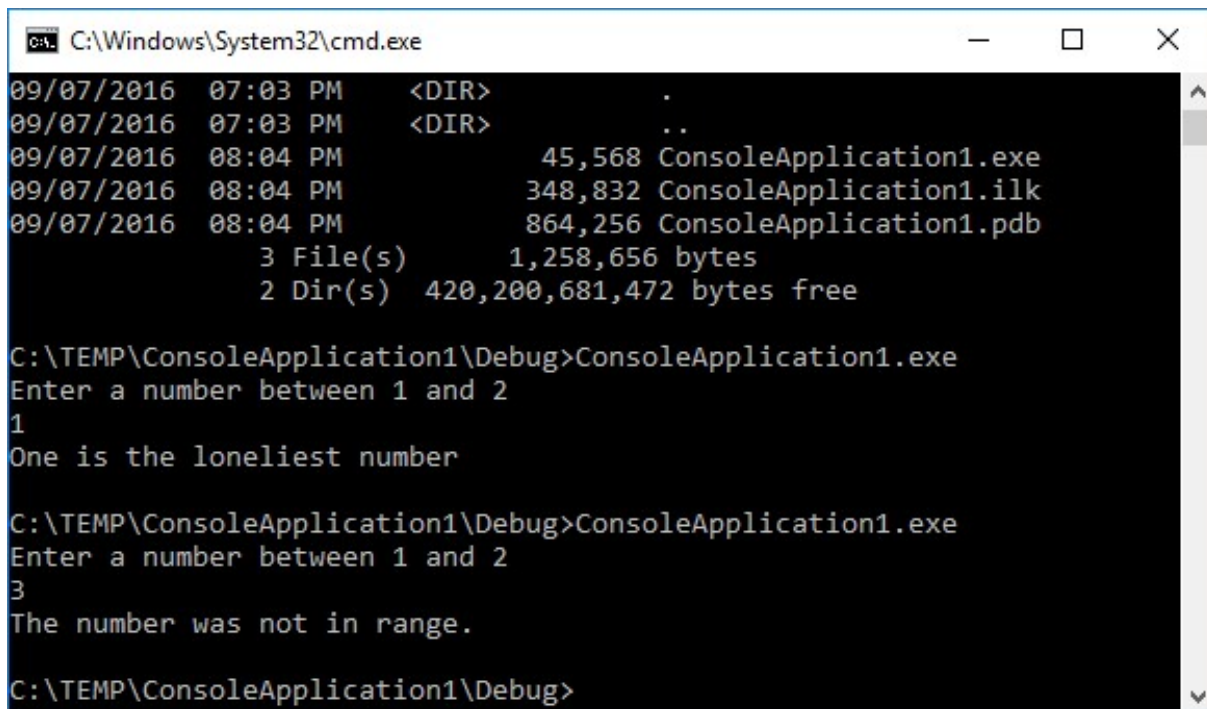
```
C:\Windows\System32\cmd.exe
C:\TEMP\ConsoleApplication1\Debug>dir
Volume in drive C is OSDisk
Volume Serial Number is C456-B643

Directory of C:\TEMP\ConsoleApplication1\Debug

09/07/2016  07:03 PM    <DIR>          .
09/07/2016  07:03 PM    <DIR>          ..
09/07/2016  08:04 PM              45,568 ConsoleApplication1.exe
09/07/2016  08:04 PM             348,832 ConsoleApplication1.ilc
09/07/2016  08:04 PM             864,256 ConsoleApplication1.pdb
                3 File(s)      1,258,656 bytes
                2 Dir(s)  420,200,681,472 bytes free

C:\TEMP\ConsoleApplication1\Debug>ConsoleApplication1.exe
Enter a number between 1 and 2
1
One is the loneliest number
```

Note that, unlike when a program is called directly from Visual Studio, a prompt is displayed instead of “Press any key to exit...”. This allows us to call the program multiple times to observe different behaviors in the same window. This is shown below.



```
C:\Windows\System32\cmd.exe
09/07/2016 07:03 PM <DIR> .
09/07/2016 07:03 PM <DIR> ..
09/07/2016 08:04 PM          45,568 ConsoleApplication1.exe
09/07/2016 08:04 PM        348,832 ConsoleApplication1.ilk
09/07/2016 08:04 PM        864,256 ConsoleApplication1.pdb
          3 File(s)      1,258,656 bytes
          2 Dir(s)  420,200,681,472 bytes free

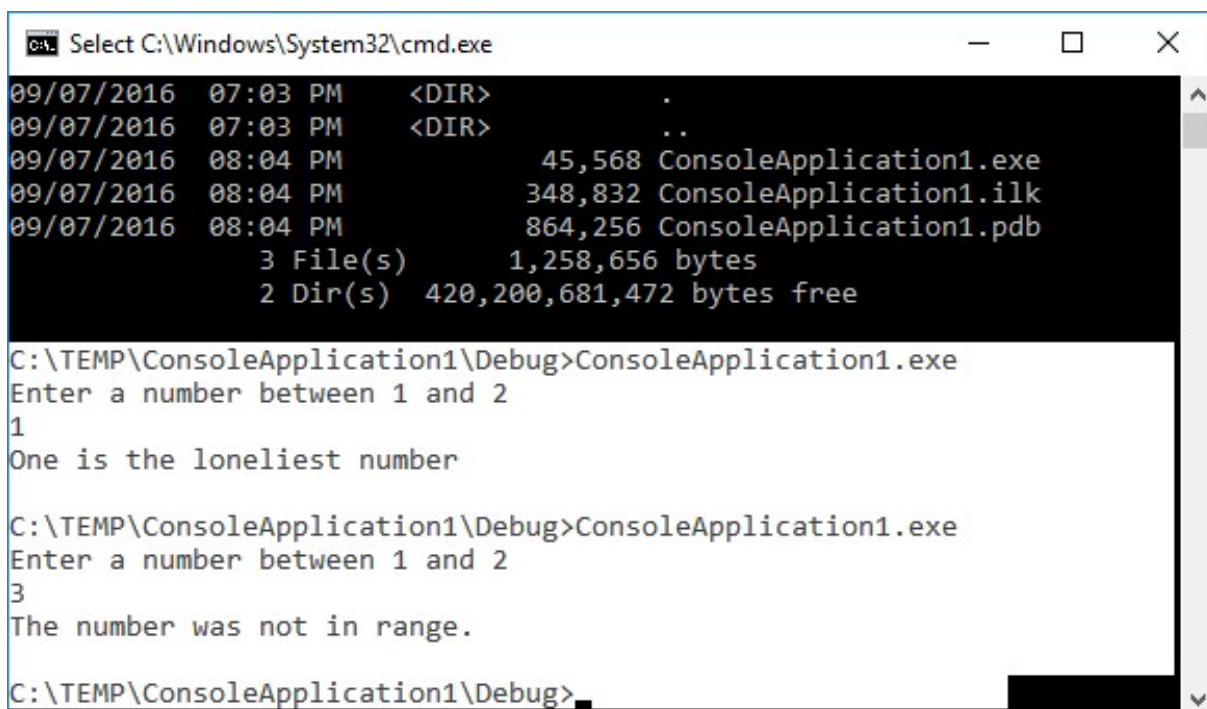
C:\TEMP\ConsoleApplication1\Debug>ConsoleApplication1.exe
Enter a number between 1 and 2
1
One is the loneliest number

C:\TEMP\ConsoleApplication1\Debug>ConsoleApplication1.exe
Enter a number between 1 and 2
3
The number was not in range.

C:\TEMP\ConsoleApplication1\Debug>
```

## Copying Text

Text is selected simply by dragging across the window with the mouse and selecting a rectangular area. It can then be copied either by pressing enter or a right-click with the mouse. Once copied to the clipboard, it can be pasted into a text editor.



```
Select C:\Windows\System32\cmd.exe
09/07/2016 07:03 PM <DIR> .
09/07/2016 07:03 PM <DIR> ..
09/07/2016 08:04 PM          45,568 ConsoleApplication1.exe
09/07/2016 08:04 PM        348,832 ConsoleApplication1.ilk
09/07/2016 08:04 PM        864,256 ConsoleApplication1.pdb
          3 File(s)      1,258,656 bytes
          2 Dir(s)  420,200,681,472 bytes free

C:\TEMP\ConsoleApplication1\Debug>ConsoleApplication1.exe
Enter a number between 1 and 2
1
One is the loneliest number

C:\TEMP\ConsoleApplication1\Debug>ConsoleApplication1.exe
Enter a number between 1 and 2
3
The number was not in range.

C:\TEMP\ConsoleApplication1\Debug>
```

(see next page)

```
C:\TEMP\ConsoleApplication1\Debug > ConsoleApplication1.exe
Enter a number between 1 and 2
1
One is the loneliest number

C:\TEMP\ConsoleApplication1\Debug > ConsoleApplication1.exe
Enter a number between 1 and 2
3
The number was not in range.

C:\TEMP\ConsoleApplication1\Debug >
```

## But that does not work on my computer!!

For all the machines in the labs on campus, that method of copying should work just fine. And you can even highlight the text with the mouse and then use CTRL-C just like in Word. And paste into the Command Prompt with CTRL-V.

But if you have a computer that was updated to Windows 10 (all of mine), and it does not seem to work with your old Command Prompt icon you had on your desktop forever, you will have to change its “Properties.” Right click on the icon select “Properties” then the “Options” tab and make sure that “Use legacy console” is NOT selected. If it is, unselect it, Apply and OK, then start again. Now make sure that ALL of the “Edit Options” (especially “Quick Edit Mode”) and the “Text Selection” options are selected. If you changed any click Apply and OK. Next time you open the Command Prompt from that icon, every thing should work correctly.