

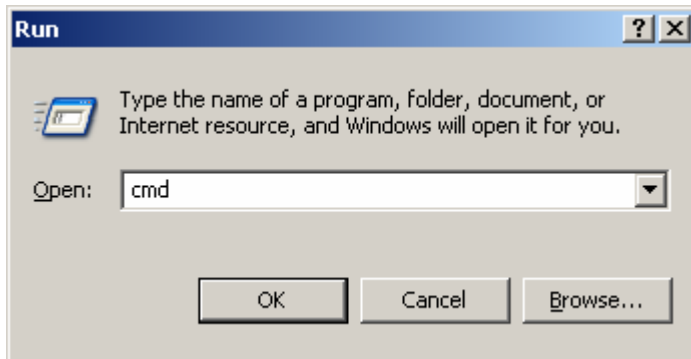
Student Name \_\_\_\_\_ Section \_\_\_\_ Date \_\_\_\_\_

### Introduction to C++ Programming - Using a UNIX Based Compiler

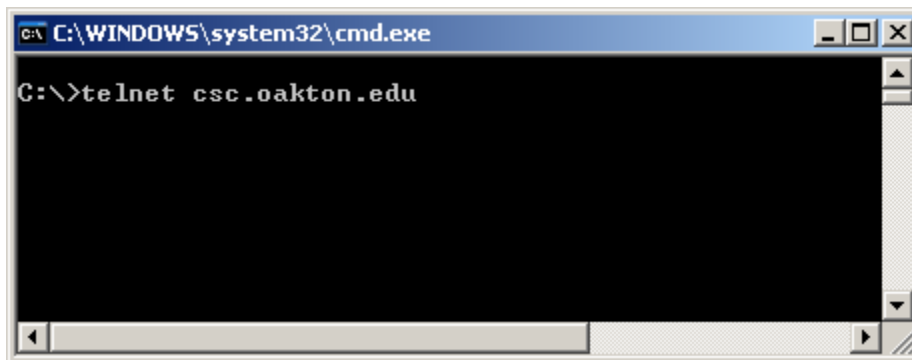
These instructions introduce you to C++ programming using a UNIX compiler.

Click the **Start** button on the Window's **Desktop** and select **Run**.

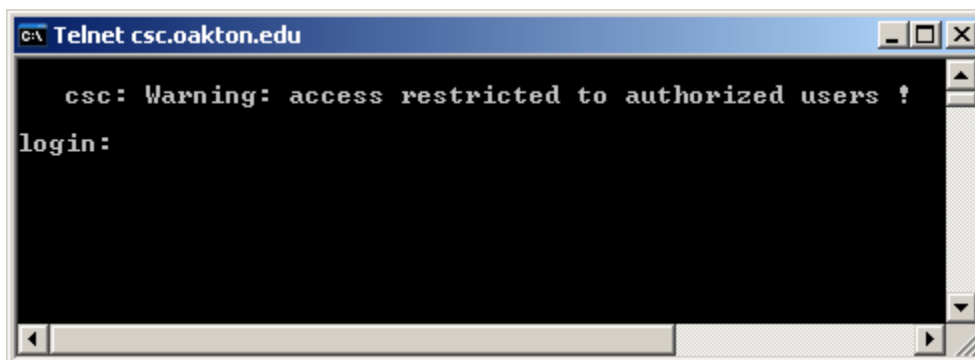
In the text field of the **Run** window, type `cmd` and press **OK** to navigate to the Command Prompt.



At the Command Prompt, type the following:

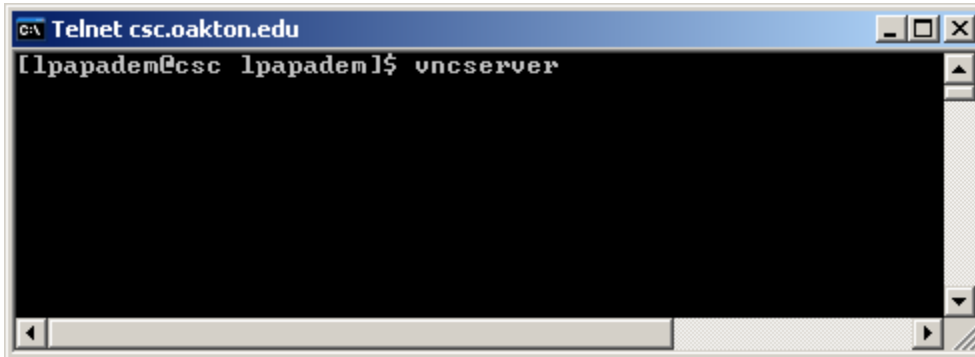


Enter your UNIX login and password.



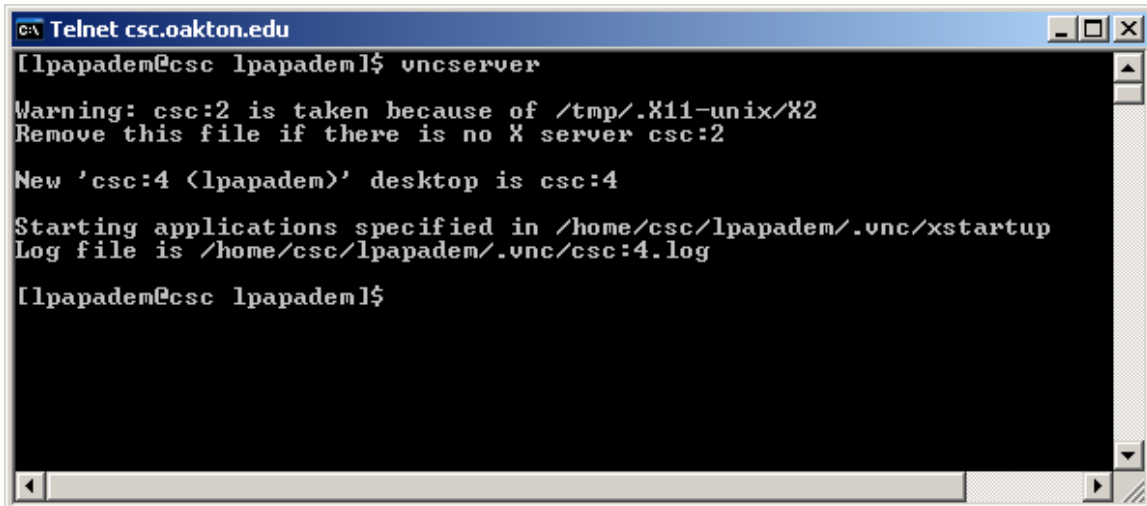
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At the UNIX prompt, type the following.



```
C:\ Telnet csc.oakton.edu
[lpapadem@csc lpapadem]$ vncserver
```

A vnc authorization number appears. Note that the authorization number below is 04.

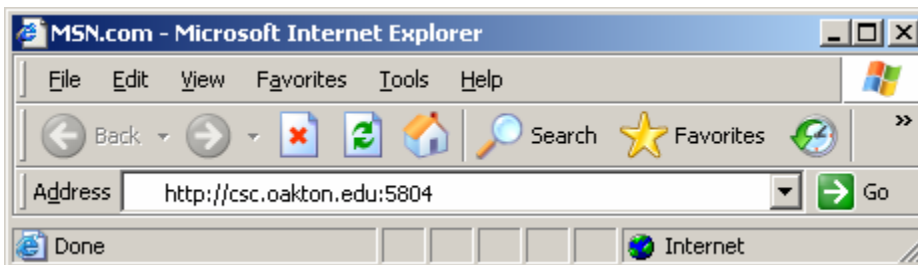


```
C:\ Telnet csc.oakton.edu
[lpapadem@csc lpapadem]$ vncserver
Warning: csc:2 is taken because of /tmp/.X11-unix/X2
Remove this file if there is no X server csc:2
New 'csc:4 (lpapadem)' desktop is csc:4
Starting applications specified in /home/csc/lpapadem/.vnc/xstartup
Log file is /home/csc/lpapadem/.vnc/csc:4.log
[lpapadem@csc lpapadem]$
```

Open Internet Explorer.

Type the following URL, where xx is your authorization number.

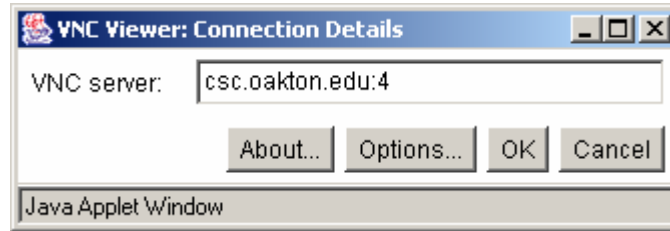
<http://csc.oakton.edu:58xx>



Note: since the authorization number is 4, in the example, the port number is 5804.

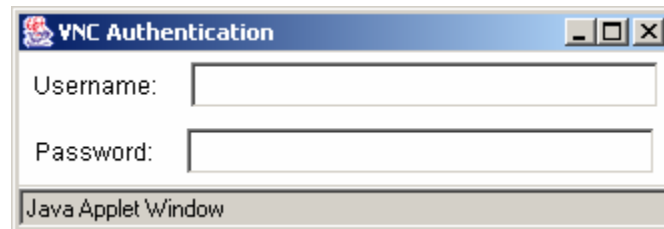
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The following screen appears:

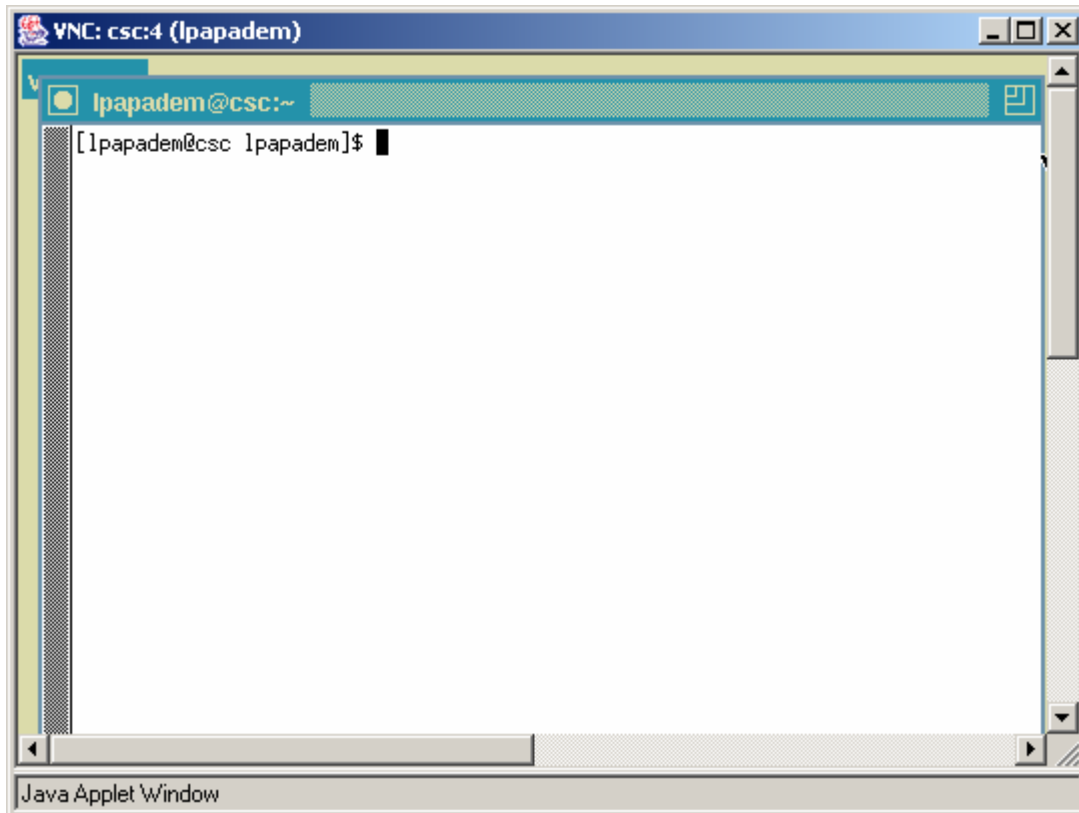


Click **OK**.

Enter your birthday or other password in the password field and press **Enter**.



The **xterm** UNIX window opens.

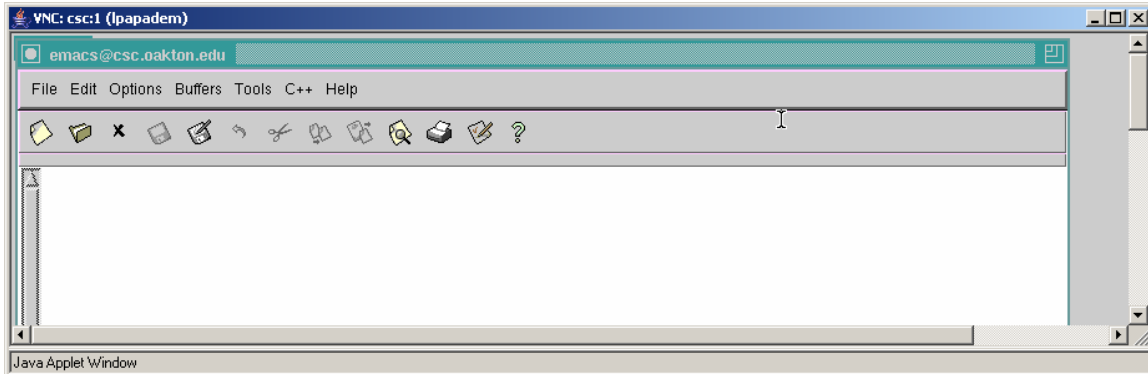


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At the **xterm** UNIX prompt, type **emacs** followed by your filename to begin an **emacs** session.

For example to create a C++ file entitled Lab1.cpp, you would type: `emacs Lab1.cpp`

The **emacs** text editor opens, as shown below.



Within this editor, you can type your program source code.

For C++ users, you may type the following sample program to test its execution.

```
#include <iostream>
using namespace std;
int main()
{
    cout << "programming is fun" << endl;
    return 0;
}
```

After you type your program code, click **Tools** on the **emacs** menu bar and select the menu option **Compile...**.

The cursor will shift to the bottom of the screen and the following will be displayed:

```
Compile command: make -k
```

Erase the text `make -k` and type the following compile command in its place.

```
g++ Lab1.cpp -o Lab1
```

Press **Enter** to have the command accepted. If prompted, type Y to save your program.

If the program compiles correctly, you will see a message such as

```
Compilation finished at Mon June 13 9:15:33
```

If you do not have any errors, proceed to the next step, otherwise read the error messages and make any necessary corrections by comparing your code to that shown on the prior page. Then recompile your program.

After you type your program code, click **File** on the **emacs** menu bar and select the menu option **Exit Emacs**. This returns you to the **xterm** UNIX prompt where you can type `Lab1` to test your program code.

Type `exit` at the **xterm** prompt to close your UNIX session.