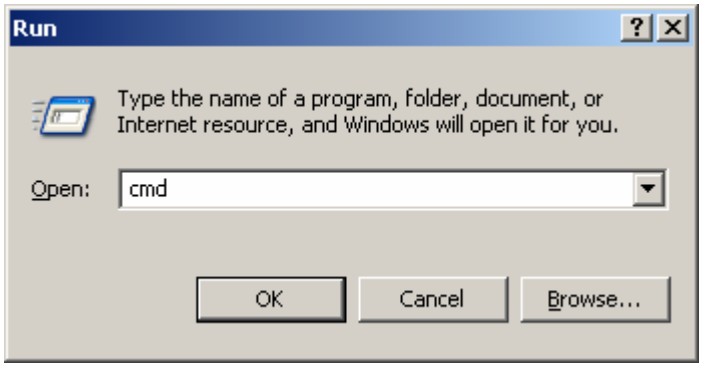
Student Name _____ Section ___ Date _____

**Introduction to Java Programming - Using a UNIX Based Compiler**

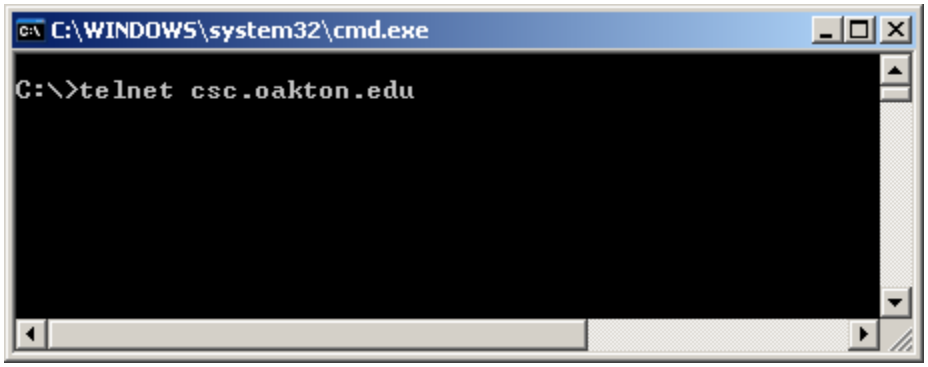
These instructions introduce you to Java programming using a UNIX compiler.

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

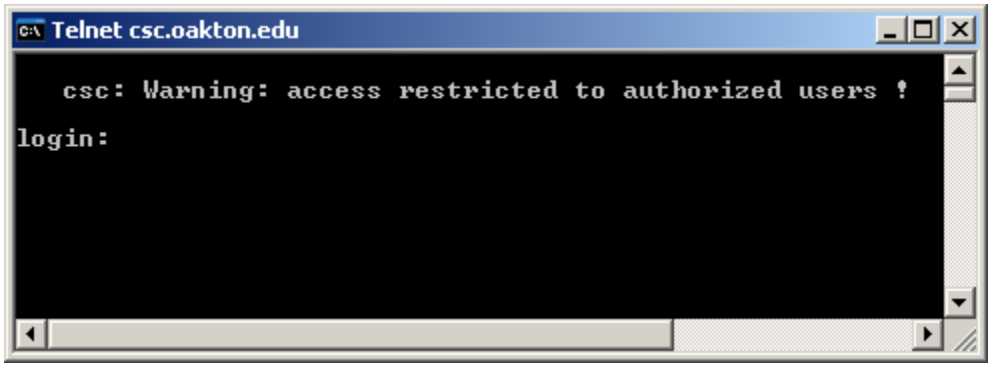
In the text field of the **Run** window, type `cmd` and press OK to navigate to the Command Prompt.




At the `C:\>` Command Prompt, type the following: `csc.oakton.edu`

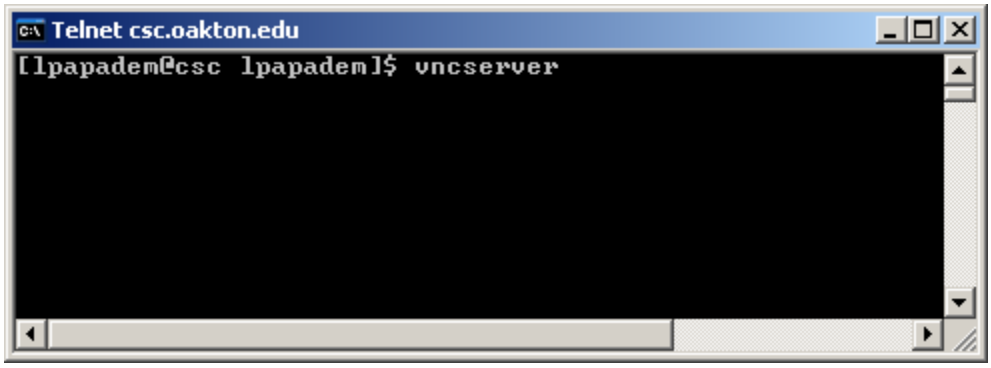



Enter your UNIX login and password, which are your Oakstar ID for the login and your birth date mmddyy for your password.

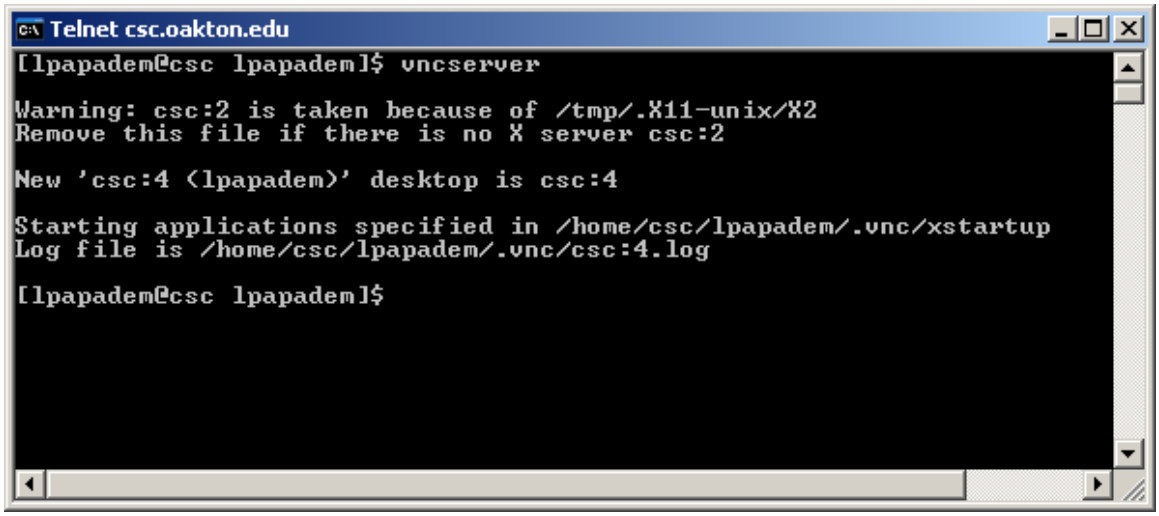


Student Name _____ Section ___ Date _____

At the UNIX prompt `$`, type the following: `vncserver`



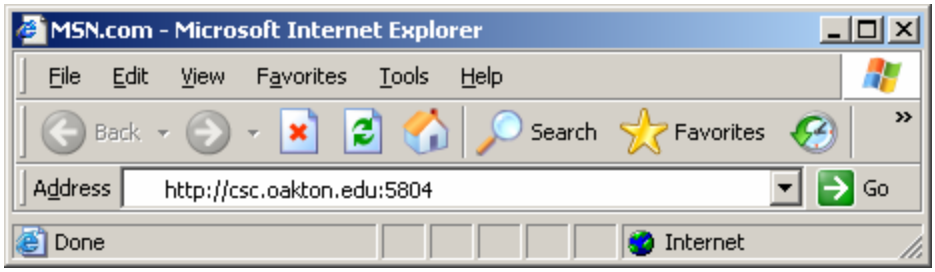

A **vnc** authorization number appears. Note that the authorization number below is `04`.




Open Internet Explorer.

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

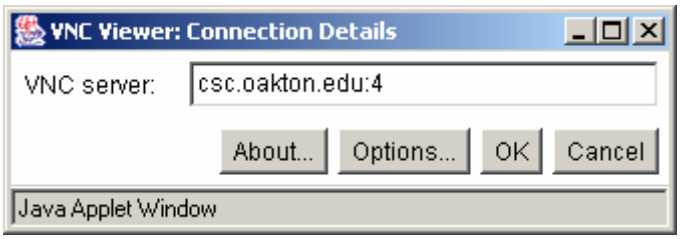
`http://csc.oakton.edu:58xx`




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

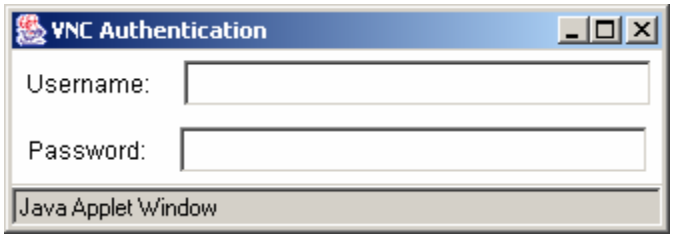
Student Name _____ Section ___ Date _____

The following screen appears:

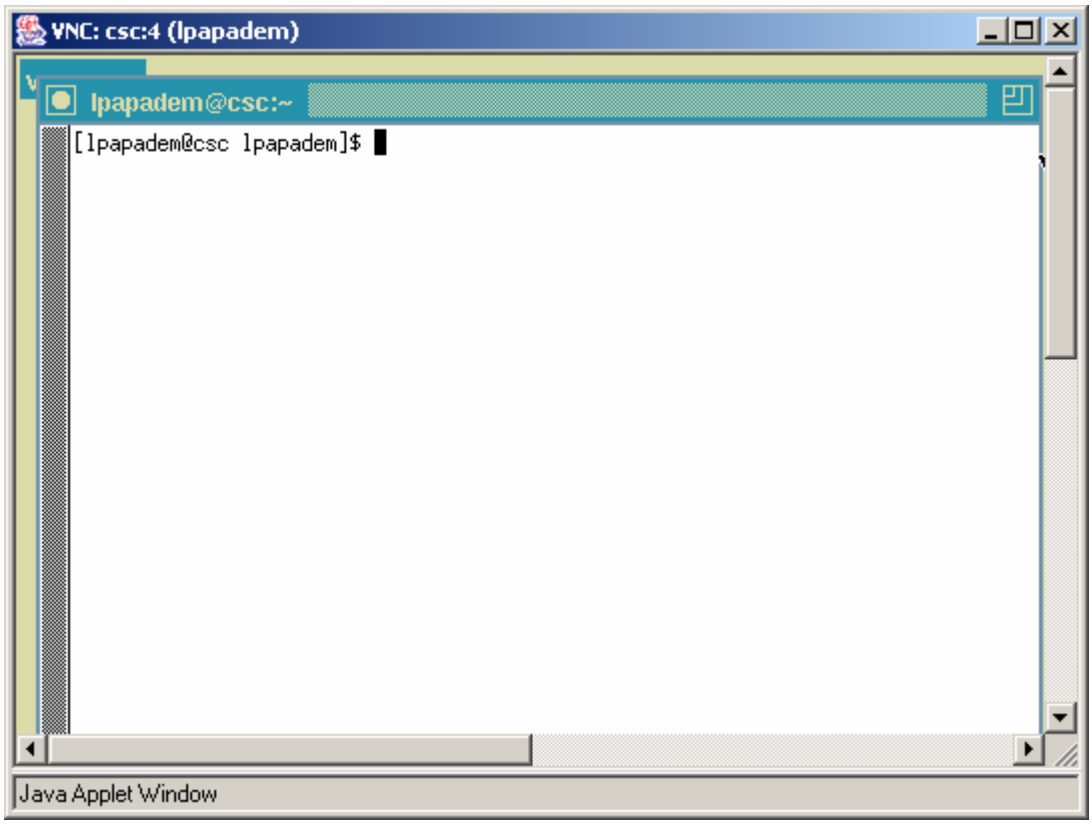



Click OK .

Enter your birthday ( in the mmddyy format ) or other password in the password field and press Enter .




The **xterm** UNIX window opens.

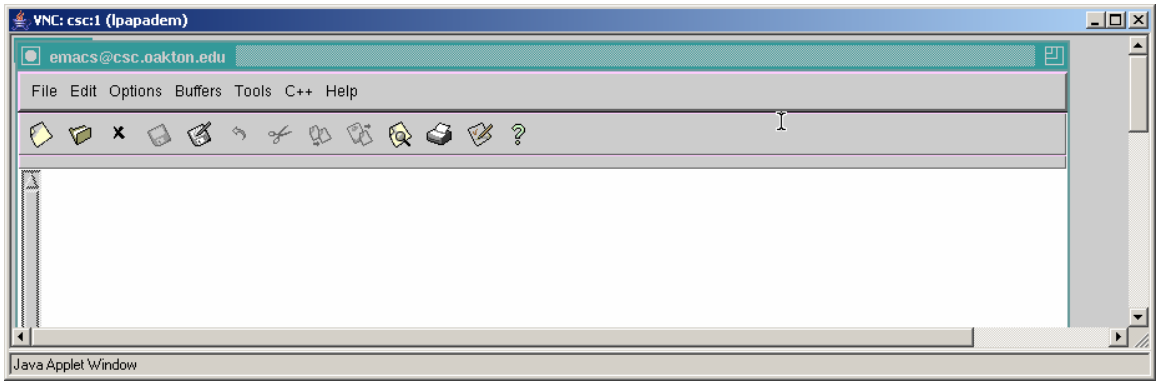


Student Name _____ Section ___ Date _____

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

For example, to create a Java file titled **Sample.java**, you would type: `emacs Sample.java`

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




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

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

```
//filename: Sample.java
class Sample
{
  public static void main(String args[])
  {
    System.out.print("Ready ");
    System.out.println("to program");
  }
}
```

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.

```
javac Sample.java
```

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

```
java Sample
```

to test your program code.

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