

Computer Science I: Lab 0

due Monday, February 1, 11:59pm

In this lab, we will become familiar with the programming environment we will use for this class.

1. Log onto storm

From the computer lab:

- 1) Log onto a lab machine in Room 331, using the password provided in class.
- 2) Open the Putty program and log in, as we learned in class.
- 3) You now will see the storm terminal prompt

```
[username@storm ~]$
```

From outside the computer lab:

- If you are using Windows, download Putty and log into storm following the instructions on our course website.
- If you are using a Mac, use the terminal program:
 - Type `ssh username@storm.cis.fordham.edu` and press enter
 - Type in your storm password (as provided in class) and press enter
- If you are using Linux, open the terminal program and follow the two steps above for Mac

Note, when you log into storm through Mac or Linux, you won't see the password as you type it. Just type and press enter.

The steps for the rest of the homework use Linux commands discussed in class and covered in the Linux resources on our course website.

2. Create your cs1 and lab0 directories

- 1) Create a directory in your `/home/students/FALL15/username` directory named `cs1`, make sure all letters are lower-case
- 2) Inside the `cs1` directory, create a directory named `lab0`, make sure all letters are lower-case and the last character is the number 0

Throughout the semester, I recommend you create a new directory for each lab assignment, place each new directory inside the `cs1` directory, and save your work inside the newest directory. For example, I recommend for this assignment you save your work in the `/home/students/FALL15/username/cs1/lab0` directory).

3. Create your first C++ program!

Inside the `lab0` directory, write a program that outputs "Greetings Earth" to the screen.

- 1) Write the appropriate code into the file `greetings.cpp`
- 2) Compile the code into the file `greetings.out`
- 3) Run `greetings.out` to confirm it works correctly

4. Add to your first C++ program!

Expand `greetings.cpp` so that it outputs a total of three lines to the screen. For example, it can output:

```
Greetings Earth
We come in peace
To teach you C++
```

Beyond the "Greetings Earth", you are free to output whatever you want. Confirm it works correctly.

4. Mess up your first C++ program!

- 1) Copy `greetings.cpp` to a second file `greetings_mistake.cpp`
- 2) Make three errors in the C++ code in `greetings_mistake.cpp` that will cause the program not to run, and use comments to say how to fix each error. For example, you can leave out a semi-colon (`;`) where one is needed or include mis-spelling in the `#include` command. ***Make sure your errors are in `greetings_mistake.cpp`, not the original `greetings.cpp`!***
- 3) Try to compile the `greetings_mistake.cpp` code and confirm that it fails to compile.

5. Submit your files

To configure your account (you only have to do this once), type `~leeds/bin/configs1` on your Linux command line. **After you have configured your account, you must log off and log back in before the `submit1600` and `verify1600` commands will work.**

To submit a file, type `submit1600 fileName` (where the file is named `fileName`)

To verify your submission has been received, type `verify1600 fileName`, and you will see the contents of the file you submitted.

Submit `greetings.cpp` and `greetings_mistake.cpp`