

CS102: Week 1

January 30, 2015

Write Hello World

1. Open a plaintext editor (notepad, notepad++)
2. Type the following in the editor:

```
#include <iostream>
int main(){
    std::cout<<"Hello World!"<<std::endl;
    return 0;
}
```

3. Save the file as hello.cpp on the desktop
4. Open a terminal (command prompt in Windows)
5. Change into the directory(folder) containing hello.cpp by typing the following into the terminal:

```
cd \Users\username\Desktop
```

Replace `username` with the username used to log into the computer.

6. Compile by typing the following into the terminal:

```
g++ -Wall -o hello hello.cpp
```

Note: `hello` is an arbitrary name, and the executable and source names do not need to match

7. Run the executable file by typing the following into the terminal:

```
hello.exe
```

Debug Hello World

1. Type the following in the editor:

```
include <iostream>

int main(){
    cout<<"Hello World!<<std::endl;
    return 0
}
```

2. Save it and compile
3. Answer the following questions:
 - (a) What does the error message say?
 - (b) What line is the error message on?
4. Fix the file and compile again

Modify Hello World

You will work in pairs for this task.

1. Choose one person as the programmer and the other as the onlooker.
2. The programmer should change hello.cpp so that it prints-out "Hello my name is *name*!" while the onlooker helps.
3. Save the file as *name.cpp*, compile, and run.
4. Switch roles.
5. Repeat step two, with the new programmer changing the hello world program as described above and the onlooker helping.
6. Save the file as *name.cpp*, compile, and run.

Note: Replace *name* with your name!