

# Course C++, Exercise 1

Date: 24 February 2015

1. Find out what is the path to your home directory. Show that you are able to type `ls /`, `ls -t`, `ls -l`, `ls -a`, `ls -h`, and understand what they do.

Also try `ls -l | more`. Show that you are able to type `cd /`, and find back the path to your home directory.

2. Type `which g++` to find out in which directory the C++ compiler is situated.
3. Create a directory `hello`. In this directory, create a file `hello.cpp` with the following contents:

```
#include <iostream>

int main( int argc, char* argv [ ] )
{
    std::cout << "hello world!\n";
    return 0;
}
```

4. Create a Makefile for compiling the previous program. Use the `make` command to compile it. (See <http://www.drpaulcarter.com/cs/make.php>) There is an example on the course homepage.
5. Modify the previous program into

```
#include <iostream>
#include <string>

int main( int argc, char* argv [ ] )
{
    std::cout << "what is your name? \n";
    std::string name;
    std::cin >> name;
    std::cout << "hello, " << name << "!\n";
    return 0;
}
```