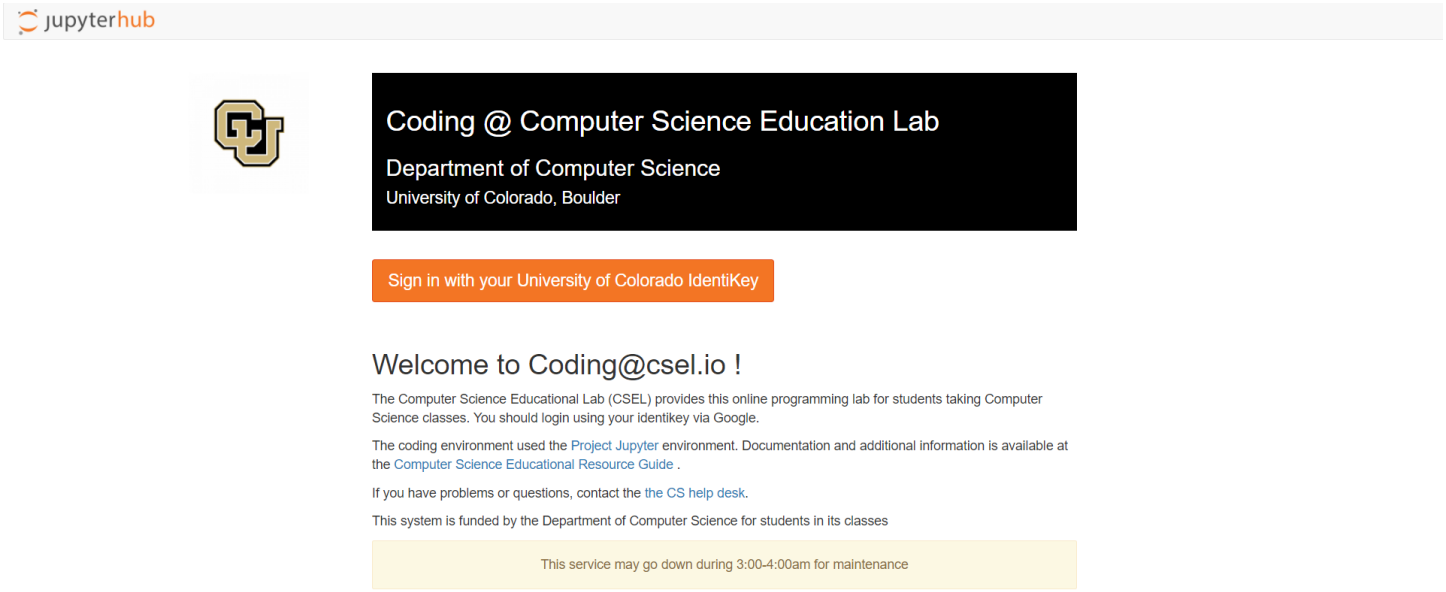
CSCI 1300 CS1: Starting Computing
Naidu/Yeh - Spring 2022
Visual Studio Code - CSEL

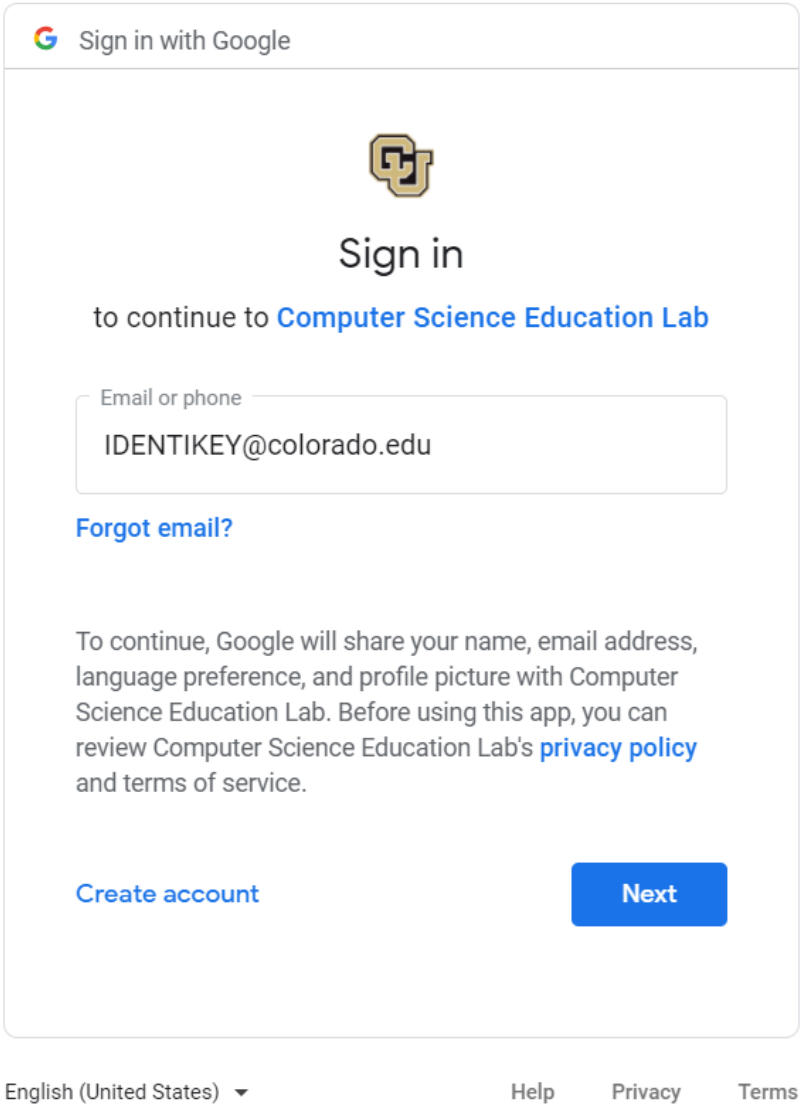
You may also use CU's online coding platform CSEL (coding.csel.io) for this course, if none of the local installations work for you. This platform should work on a Chromebook.

Coding@CSEL.io

Step 1: Open your favorite browser and go to coding.csel.io. You should see the following welcome screen:

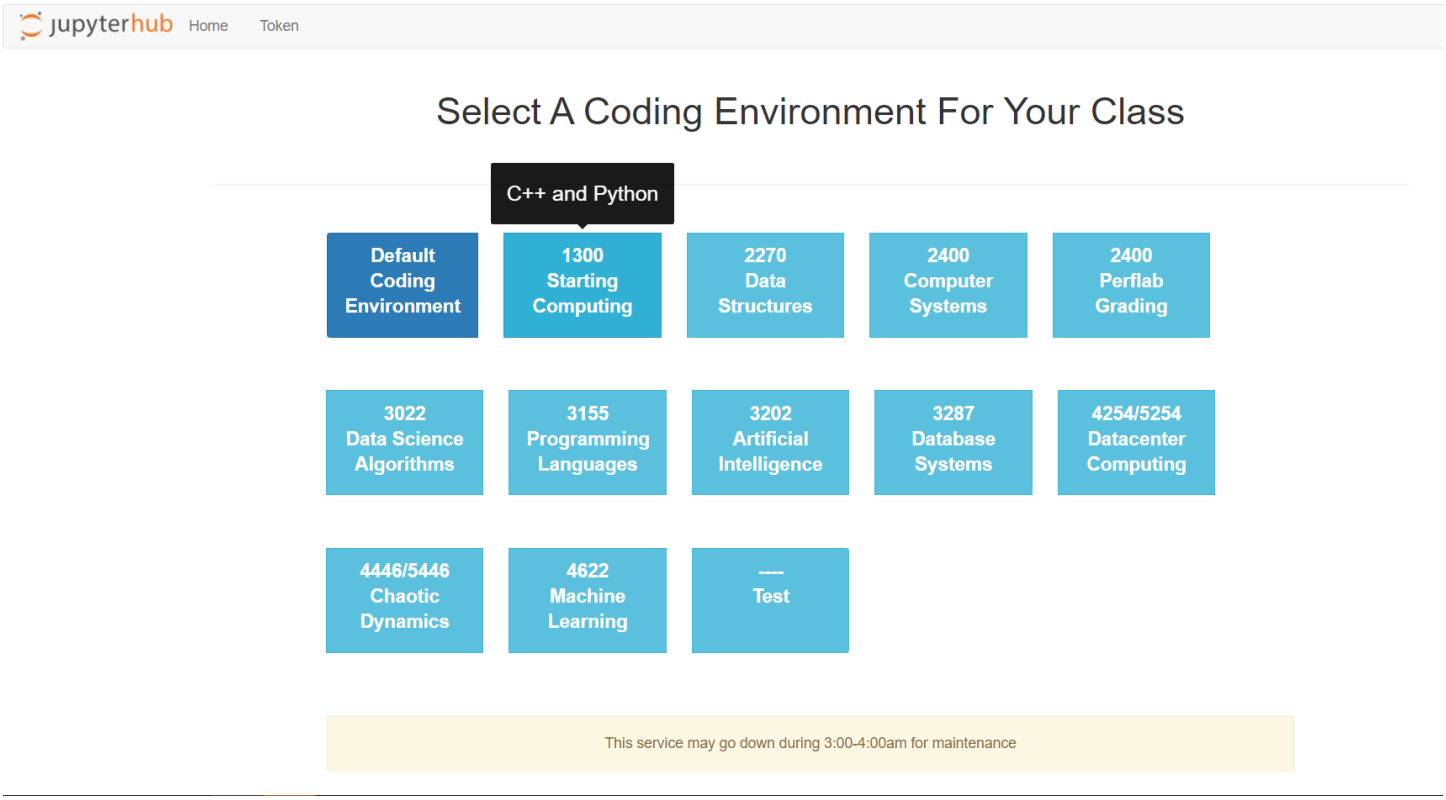


Step 2: Click on the "*Sign in with your University of Colorado IdentiKey*" button. This will further open a Google sign-in page. Log-in using your identikey@colorado.edu Google account.

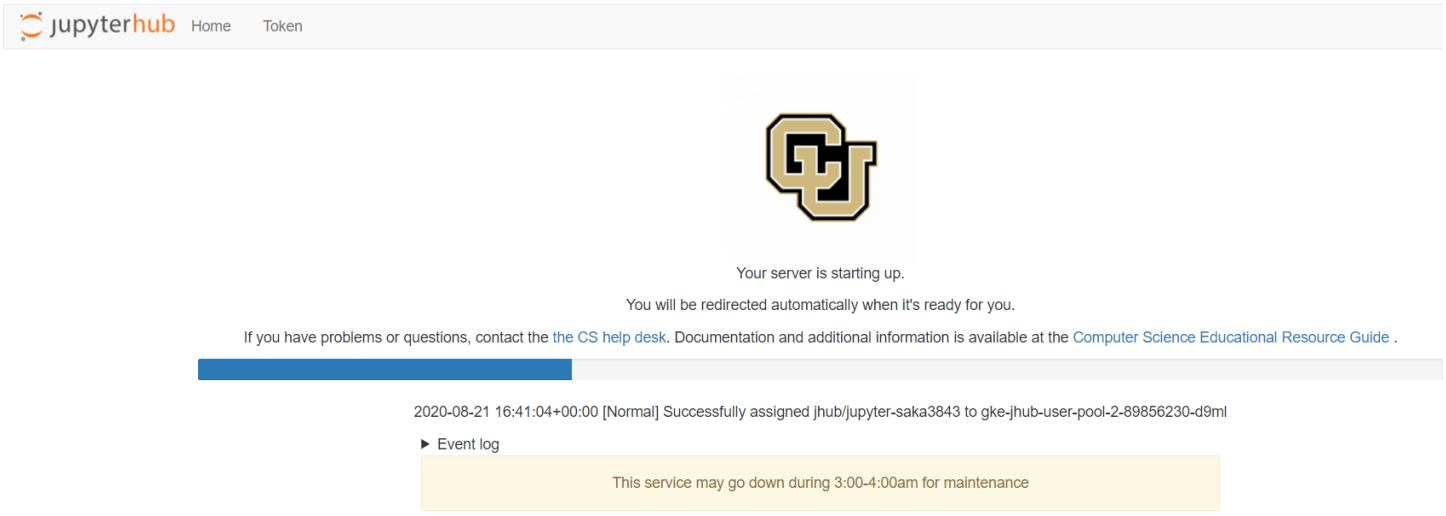


Step 3: Once you are authenticated and logged-in, you will see the following screen. Choose the "*1300 Starting Computing*" tile.

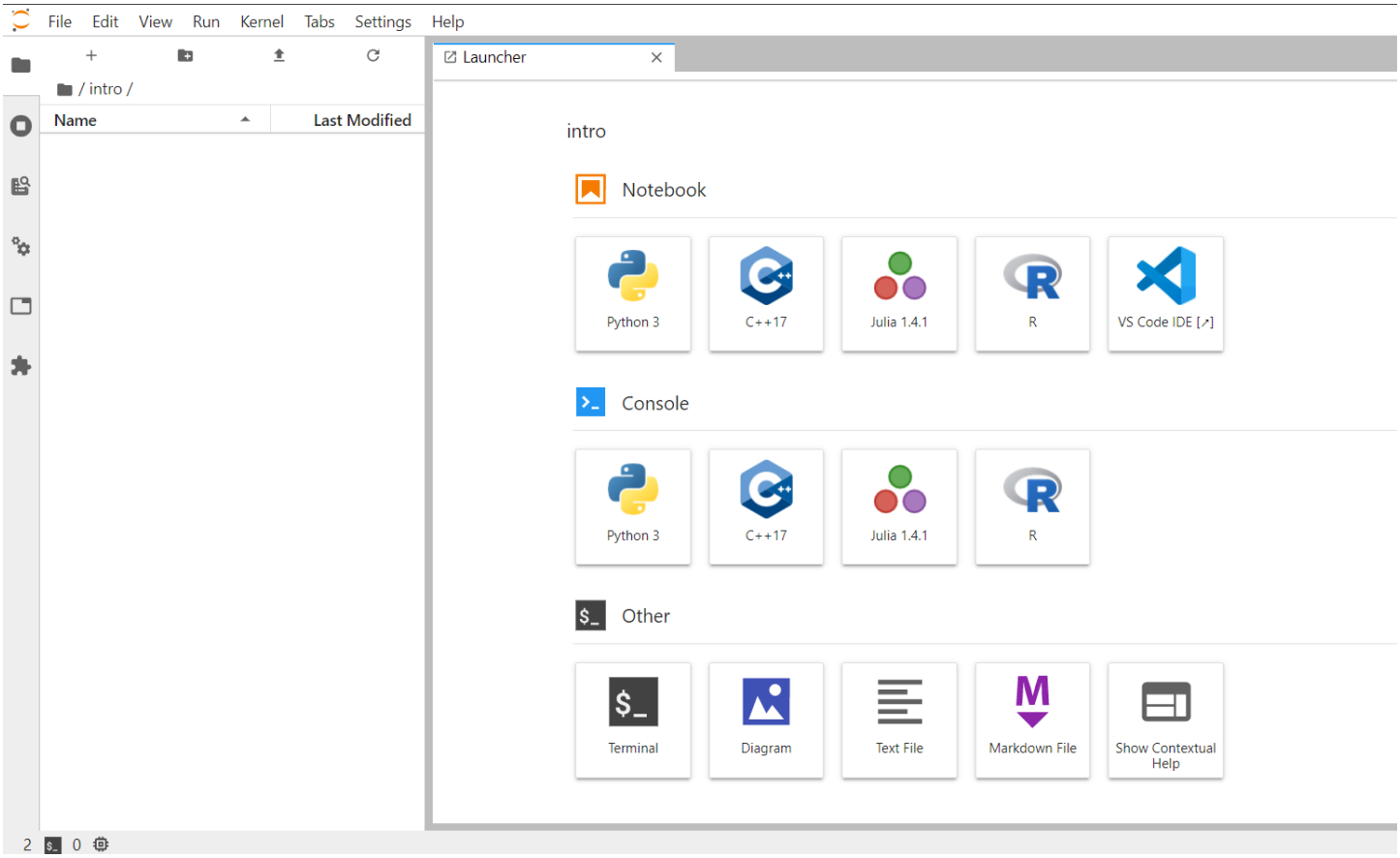
NOTE: If you are not able to log-in to the platform, email help@cs.colorado.edu with your issue.



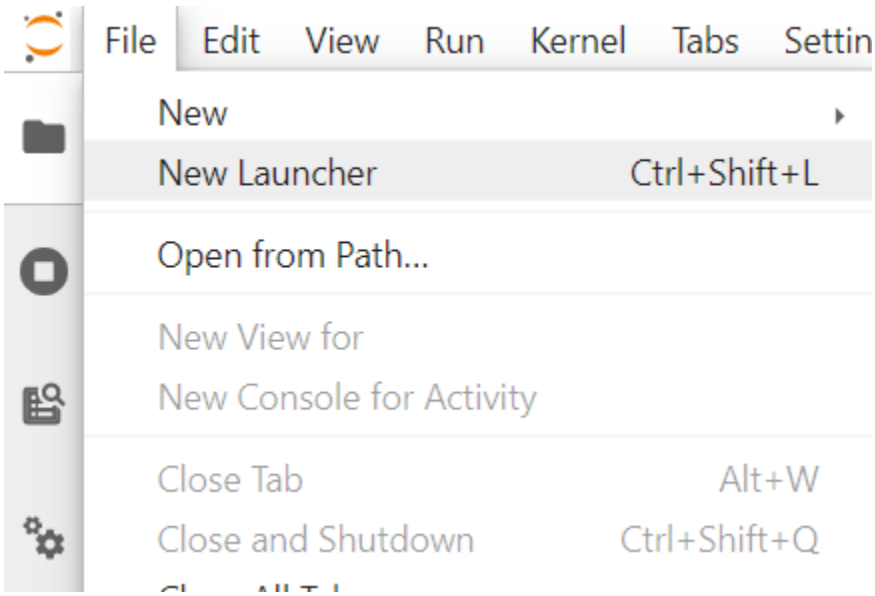
Once selected, a container will be created for you. It may take a few seconds to boot up.



Step 4: You will see the following screen. Notice the right pane titled “Launcher”.



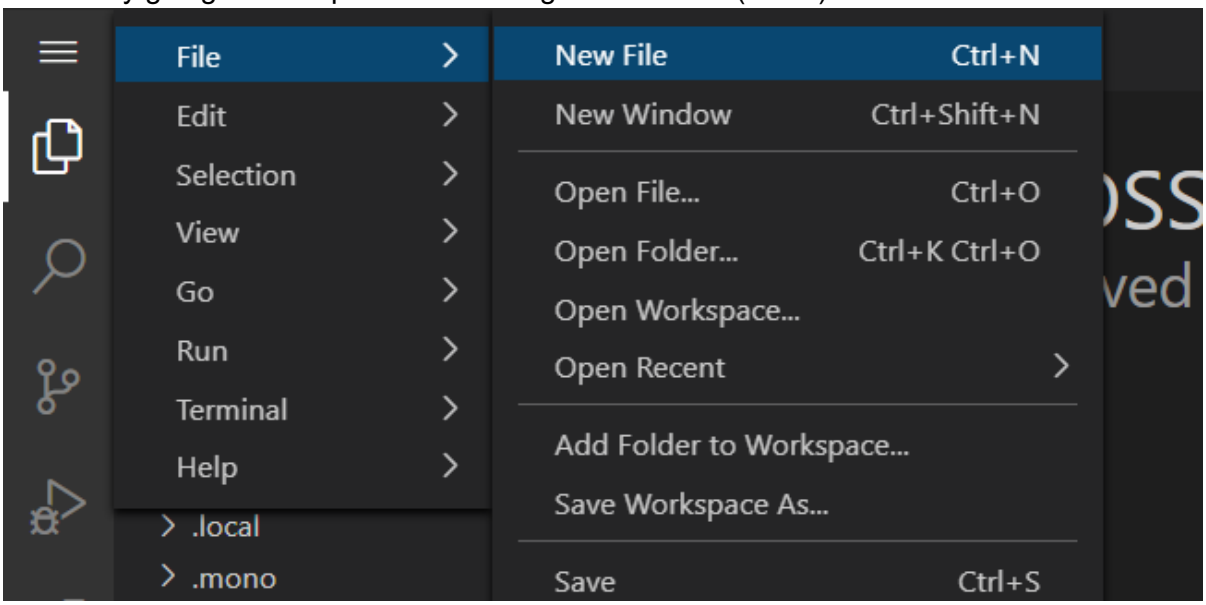
If the “Launcher” is not available, go to File > New Launcher.



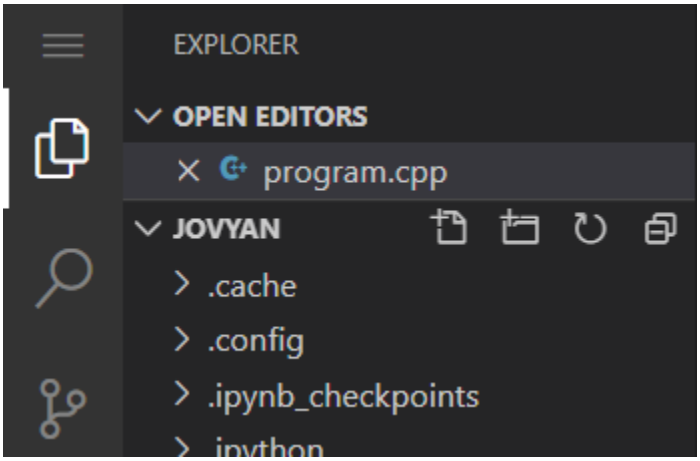
Step 5: In the “Launcher” pane, click on the “VS Code IDE” icon. This will open a New tab/window with an online version of VS Code.

Step 6: You can now use this version of VS Code as you would on a local machine. Let's go ahead and try writing a "Hello, World!" C++ program.

6.1: Start by going to the top left and clicking on the menu ( ). Then choose File > New File.



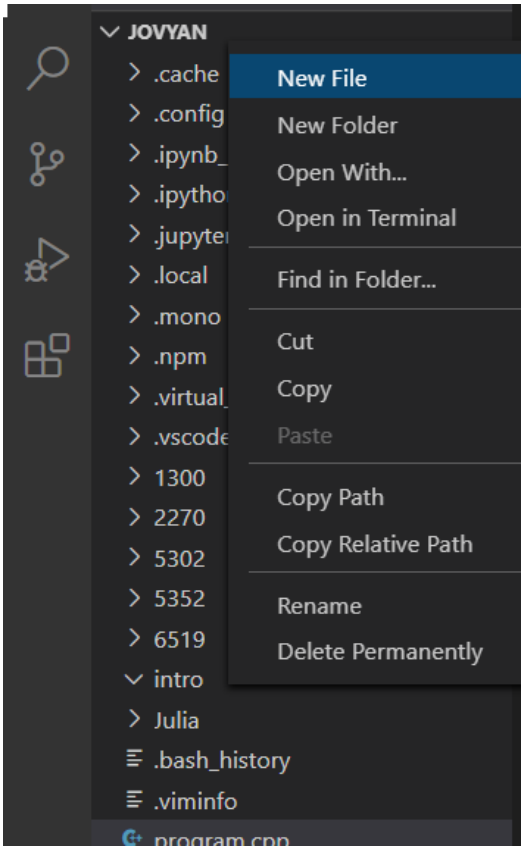
You can also create a new directory/new file using the explorer pane.



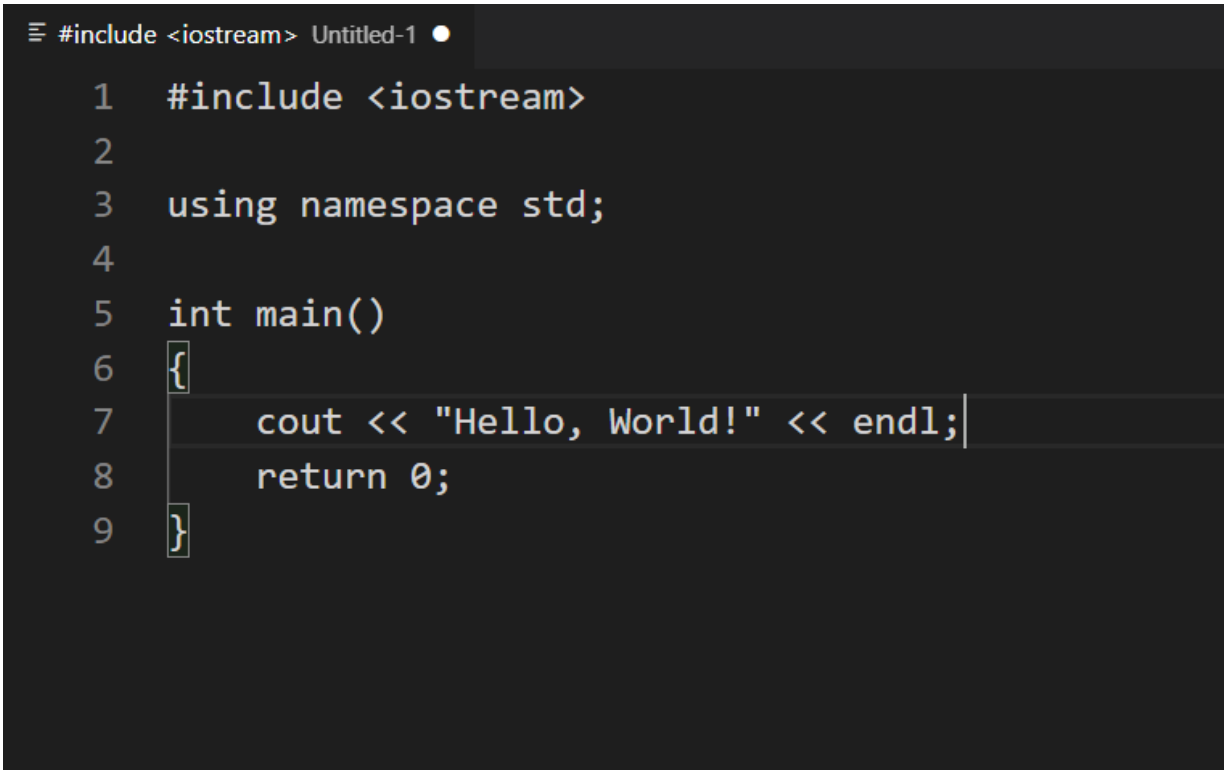
Use for a new file and for a new folder.

Once that file/folder is created, rename it and then you can drag it into a different folder.

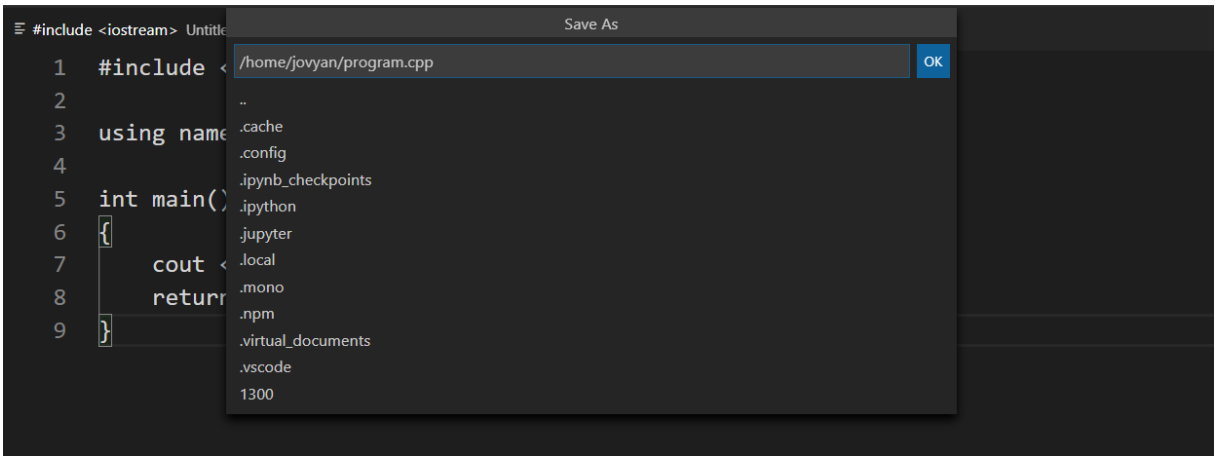
You can also right-click a folder and create a New File.



6.2: Once the file is available, go ahead and type the following in your newly opened by file.



6.3: Then go ahead and save it. Use **Menu > File > Save** or press **Ctrl + S** or **Cmd + S**. If your file does not have a name already, you can specify the file path, adding the extension `.cpp` and save your file by clicking OK.



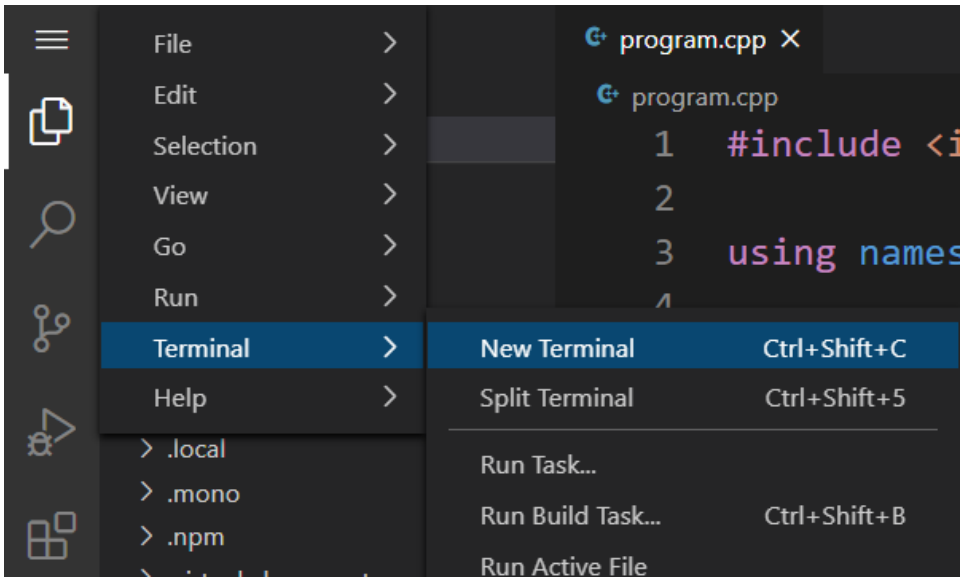
6.4: Once you have saved the file, the syntax highlighting should come into effect.

```cpp
#include <iostream>

using namespace std;

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

Step 7: Now, let's compile and run the program. Go to the application menu ( ) > Terminal > New Terminal.



The Terminal should open up towards the bottom of the VS Code window. Go ahead and test the compile and execution commands.

Navigate to the directory of the program file that you just wrote. Use the following commands to compile and execute the program:

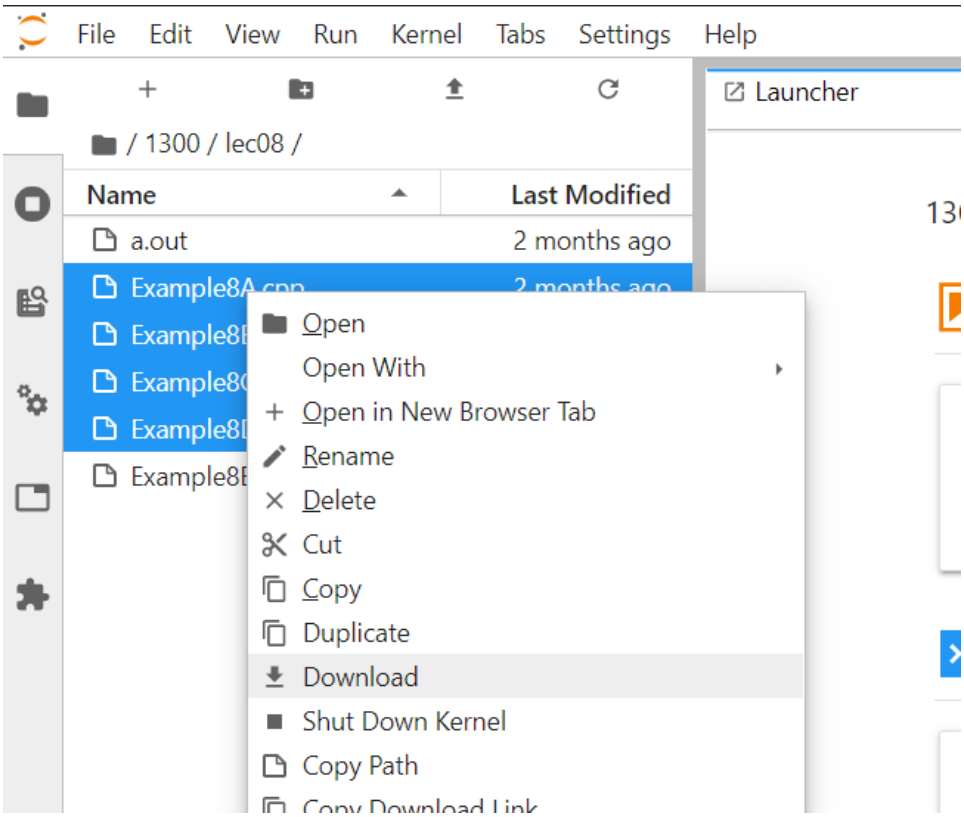
```
$ g++ <program_name.cpp>
$ ./a.out
```

If you get the following output, then you have successfully compiled and executed a C++ program.

Note on Downloading Files from Coding@CSEL

You cannot download files directly from the VS Code window. You will need to open the JupyterLab window (coding.csel.io).

On the left pane of the JupyterLab window, open the file explorer and select all the files that you want to download. Then right-click on them and select Download.



And that's it! You have successfully set up your coding environment on your machine. Well done!

Happy coding!