# **An Introduction to Eclipse**

This guide details how to use Eclipse. If this is your first project, please follow the steps outlined in this guide consecutively. Unless otherwise instructed, create a project called “HelloWorldC++”

## ***Launching Eclipse***

1. Double-Click on the “Eclipse” Icon on your desktop
2. The Splash Screen will show.
3. A new dialog box will pop up called “Workspace Launcher.”
   1. Click Browse, navigate to your H: drive, and make a new folder called “Eclipse”
   2. Press OK.
   3. Make sure “Use this as the default and do not ask again” is checked.
   4. Press Ok
4. Eclipse will then finish loading. You will be presented with a welcome screen. Press the “Go to Workbench” button (use the tool tips).

## ***Switching Perspectives***

Eclipse is a general-purpose IDE (integrated development environment). To be useful for many different programming languages, Eclipse has “perspectives,” or predefined views for certain tools and programming languages. The Eclipse installed in the B112 lab is configured for C++, Java, and Python.

To use Eclipse for C++, it needs to be switched to the C/C++ perspective. Here are the steps how:

1. Go to Window 🡪 Open Perspective 🡪 C/C++

That’s it! Eclipse is now in C/C++ mode. In the future, Eclipse should automatically remember this, but if it does not, repeat these steps.

If for some reason you lose a window, you can reset the perspective back to its defaults by:

1. Go to Window 🡪 Reset Perspective

## ***Creating a Project***

1. Open Eclipse, if it is not already.
2. Go to File 🡪 New 🡪 C++ Project
   1. A dialog box will pop up. Type in the Project’s name, and then press “Finish”

## ***Creating a Source File***

1. Open Eclipse, and a project, if it is not already
2. Go to File 🡪 New 🡪 Source File
3. Name the file, as necessary
   1. Remember to include the “.cpp” extension
4. Press Finish

## ***Writing your first Program***

1. Follow the instructions above to create a project called “HelloWorldC++” with a source file called “HelloWorld.cpp”
   1. HelloWorld.cpp should automatically open. Copy and paste the following code and press save:

**#include** <iostream>

**using** **namespace** std;

**int**

**main**(**int** argc, **char**\* argv[]) {

cout << "Hello World from C++" << **endl**;

**return** 0;

}

1. Go to Project 🡪 Build Project to build the code
2. Go to the Run 🡪 Run as 🡪 Local C/C++ Application. The code will not run.
3. Your program should have run, and the output should be at the bottom. If it is not, go to Window 🡪 Show View 🡪 Console