Notes on using Eclipse CDT to compile and execute C++ programs:

Eclipse in Adams 204:

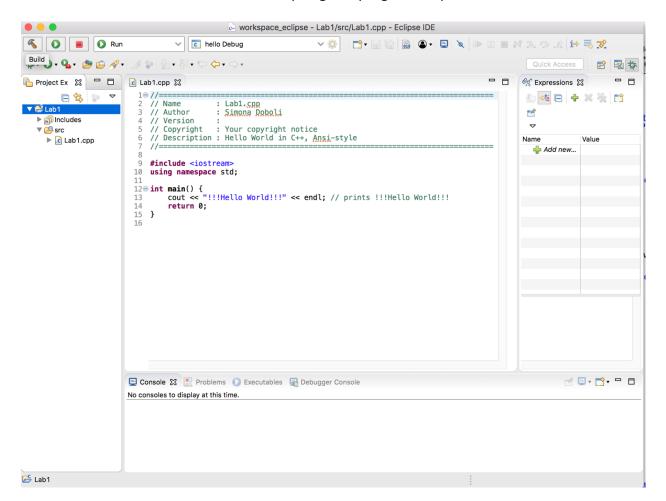
- Open Eclipse: Go to drop down menu → Applications → Programming → Eclipse
- Set up your workspace in your ~/CSC16/Lab1 directory → Click Launch
- Go to File/New/Project → Select C/C++ → Select C++ Project → Give your project the name Lab1 → Select Hello World C++ Project under Executables → Select GCC in the toolchains → Click Finish.

Double click on Lab1 folder on the left column. Double click on folder src. You will see the following screen:

The middle window is your program code – in an editor.

The left window is your project information.

The bottom window is where compiling and program output will show.



Right click on Lab1.cc and rename it hello.cpp:

```
workspace_eclipse - Lab1/src/hello.cpp - Eclipse IDE
               Run
                                    c hello Debug
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                       Ø * Ø • Ø • ♥ ♦ • ♥ 
                                                                                                     _ _
Project Ex 🔀
                      1⊕ //=

    Workspace 
    ▼

                           // Name
                                         : Lab1.cpp
▼ 🎏 Lab1
                           // Author
                                           Simona Doboli
  ▶ includes
                           // Version
  ▼ 🍱 src
                           // Copyright
                                         : Your copyright notice
                           // Description : Hello World in C++, Ansi-style
     ▶ 🖟 hello.cpp
                        9
                           #include <iostream>
                       10
                           using namespace std;
                       11
                       12⊝ int main() {
                               cout << "!!!Hello World!!!" << endl; // prints !!!Hello World!!!</pre>
                       13
                               return 0;
                       14
                           }
                       15
                       16
```

Compile your program: go to Menu \rightarrow Project \rightarrow Build All (or Build Project). You should see the output from the bottom window (see next Figure). If you see 0 errors and 0 warnings, then you know your program has compiled successfully.

```
- -
                - -
Project Ex 🔀
                          i hello.cpp ⋈
  Workspace 😝
                               // Name
// Author
                                                : Lab1.cpp
: Simona Doboli
 ▼ 📂 Lab1
   ▶ ∰ Binaries
                               // Version
// Copyright
// Description
                                  Copyright : Your copyright notice
Description : Hello World in C++, Ansi-style
   ▶ 👸 Includes
     ▶ 🖟 hello.cpp
   ▶ <u></u> Debug
                               #include <iostream>
using namespace std;
                           14
15
                                    return 0;
                           16
                                                                                                              ⊕ 分 每 □
                          ■ Console 

Problems 

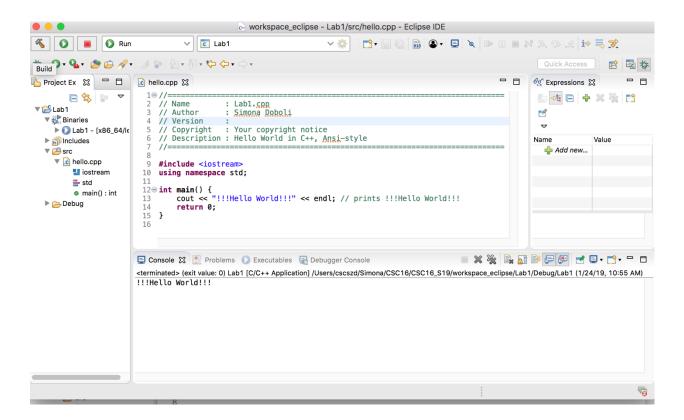
Executables 

Debugger Console
                         CDT Build Console [Lab1]
                         10:46:17 **** Incremental Build of configuration Debug for project Lab1 **** make all
                          make: Nothing to be done for `all'.
                          10:46:17 Build Finished. 0 errors, 0 warnings. (took 74ms)
```

Click on folder Binaries in the left window. You should see Lab1 [x86_64 ...]. That is your executable file (.exe) - machine code – that you can run or execute.

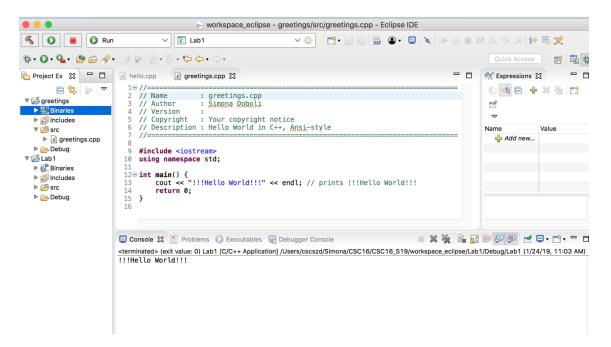
```
Project Ex 🔀
                        19 //=====
                          2 // Name
                                            : Lab1.cpp
▼ [ Lab1
                          3 // Author
                                            : Simona Doboli
  ▼ ₩ Binaries
                          4 // Version
     ► () Lab1 - [x86_64/l€
                          5 // Copyright
                                            : Your copyright notice
                            // Description : Hello World in C++, Ansi-style
                          6
   ▶ 👔 Includes
                             //=
   ▼ 🍱 src
                          8
     ▼ lc hello.cpp
                          9
                             #include <iostream>
         iostream
                         10 using namespace std;
                         11
         = std
                         12⊝ int main() {
         main(): int
                                 cout << "!!!Hello World!!!" << endl; // prints !!!Hello World!!!</pre>
                         13
   Debug
                         14
                         15
                            }
                         16
```

Run your program: Click on the green button on the upper left side of the project window. You should see the message !!!Hello World!!! in the bottom window.



To write/compile/run a new program:

Open a new Project in the same workspace (Lab1) called greetings by repeating previous steps. You will see the following window:



Now replace the automatically generated code (greetings.cpp) with the greetings.cpp code from Lab1 (see Lab 1 document) and continue with the Lab 1 steps.