ECLIPSE C++ TUTORIAL

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A. INTRODUCTION

Section 1 guides you through creating a simple C++ application using the Eclipse C/C++ Development Toolkit (CDT) using the following steps:

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- Build a project
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Section 2 shows you how to:

- Print source codes
- Print screen output
- Save files using SSH

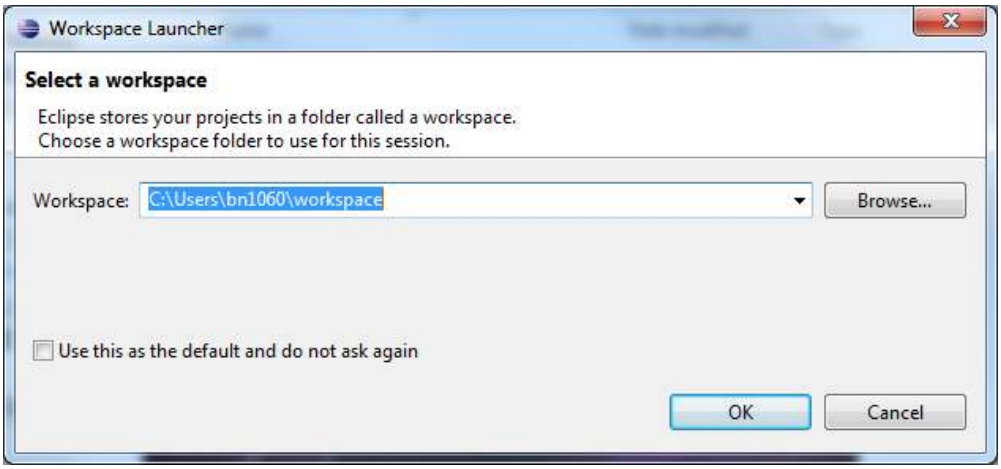
Section 3 shows you how to:

- Upload or download source files via SSH
- Importing existing source files to a project

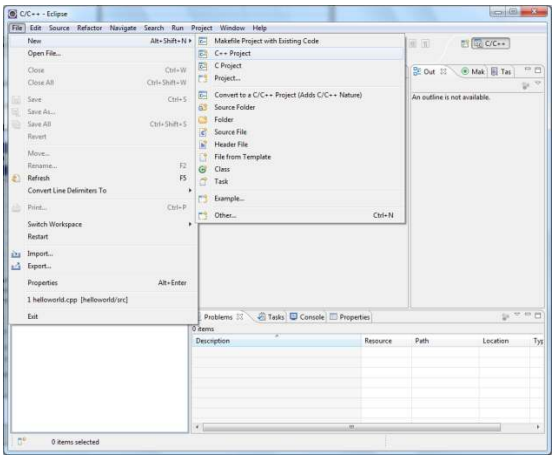
B. SECTION 1: Creating C++ Project

1. Step 1: Create a C++ project and Run

1.1. Run Eclipse C++ by double clicking on **eclipse.exe,** the **Workspace Launcher** window will pop up. You need to specify the workspace you want to set up. The **default** workspace of lab machine is : *C:\Users\<username>\workspace*

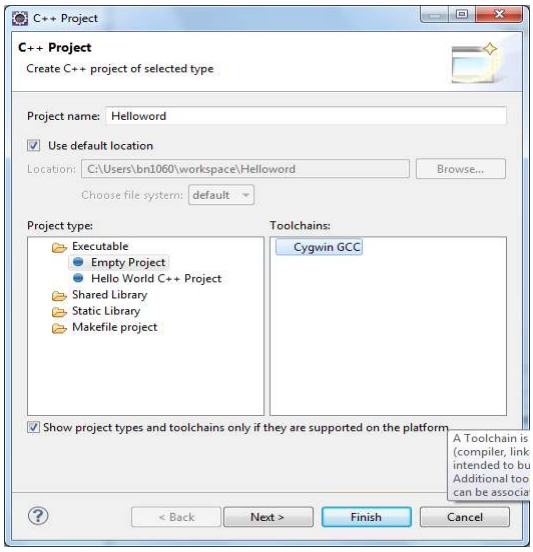


1.2. Select **File → New → C++ Project**

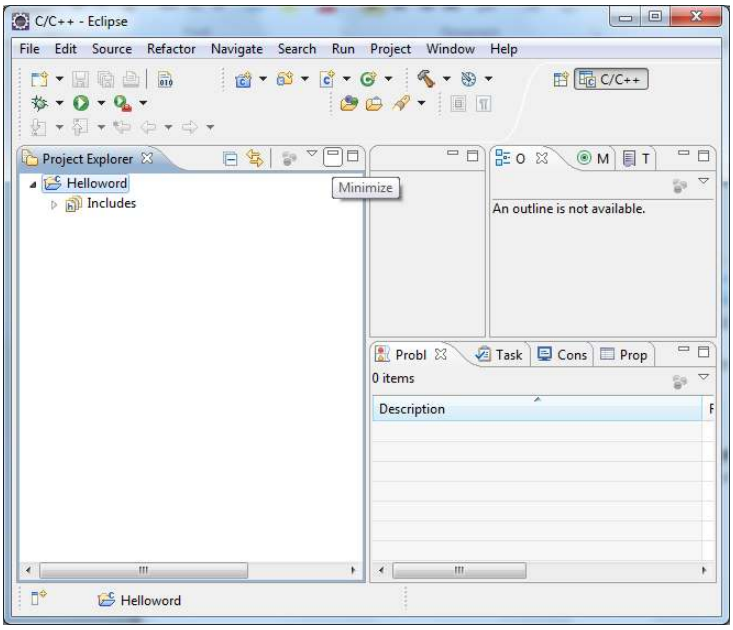


1.3. The C++ Project Wizard opens.

- In the **Project name** field, type in a name for the project, for example *Helloworld.*
- In the **Project type** field, select **Empty Project** under **Executable** folder.
- In the **Toolchains** field, select a set of tools (compiler, linker, assembler or debugger) to build the project. You may have more than one toolchain depending on what is installed on your system. However, in the "**Installing Eclipse C++ for Window and Linux**", we installed **Cygwin**; therefore, it only shows **Cygwin GCC**.



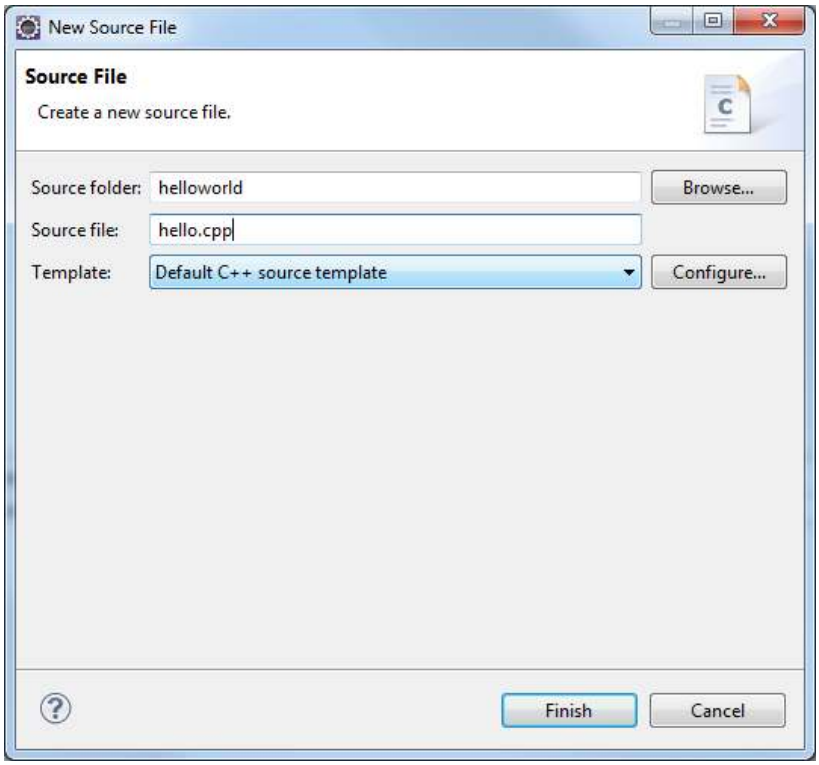
1.4. Click **Finish**. A project is created with default settings and a full set of configurations based on the project type and the toolchain you selected.



2. Step 2: Create Source Files

2.1. Select **File → New → Source File**

- A pop up window open. In the **Source file** field, type the name of your new source file, for example **hello.cpp.**
- **Click Finish.**



2.2. Type the following code into the blank editor

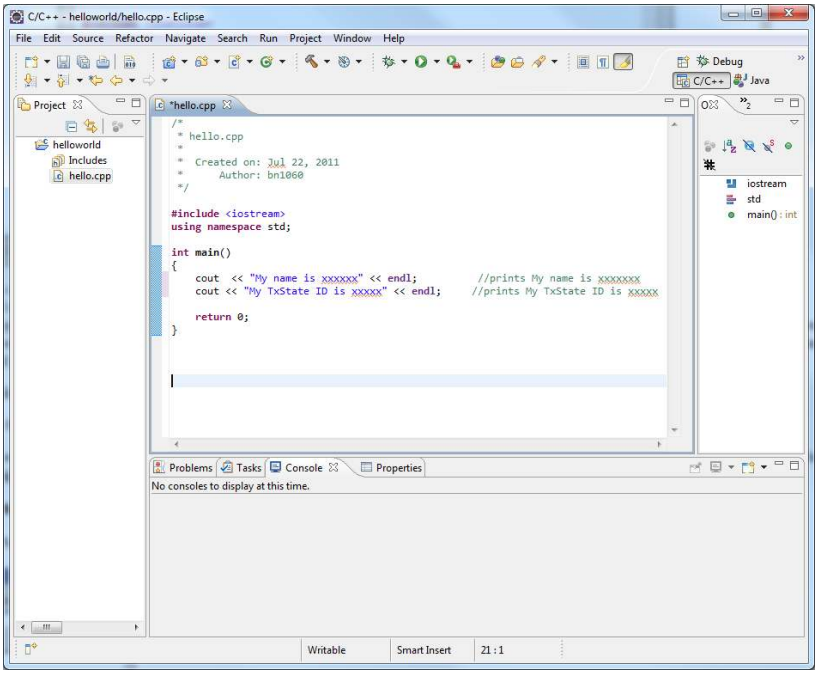
#include <iostream>

```
using namespace std;

int main()
{
   cout  << "My name is xxxxxx" << endl;          //prints My name is xxxxxxx
   cout << "My TxState ID is xxxxx"  << endl;    //prints My TxState ID is xxxxx

   return 0;
}
```

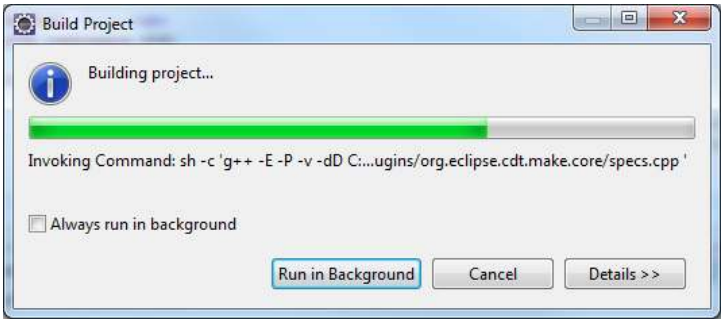
Note: Replace xxxxxx with your name and your ID



2.3. Select **File → Save** (or **Ctrl + S**)

3. Step 3: Build a Project

3.1. Select **Project → Build All**



3.2. If the project builds successfully, the following message will be displayed in the **Console** view.

```
**** Build of configuration Debug for project helloworld ****

make all
Building file: ../hello.cpp
```