# **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:

- Create a C++ project
- Create source files
- Build a project
- Run the application

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

Workspace L	auncher		X
Select a work Eclipse stores Choose a work	<b>space</b> your projects in a folder called a workspace. kspace folder to use for this session.		
Workspace:	:\Users\bn1060\workspace		Browse
Use this as t	he default and do not ask again	ОК	Cancel

1.2. Select File → New → C++ Project

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		Desc	* Resource	Path	Location Tj		

- 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.

St C++ Project C++ Project Create C++ project of selected type	
Project name: Helloword	
Location: C:\Users\bn1060\workspace\H	lelloword Browse
Choose file system: default • Project type:	Toolchains:
<ul> <li>Executable</li> <li>Empty Project</li> <li>Hello World C++ Project</li> <li>Shared Library</li> <li>Static Library</li> <li>Makefile project</li> </ul>	Cygwin GCC
Show project types and toolchains only	if they are supported on the platform A Toolcha (compiler, intended t Additiona Can be ass
(2) Park	

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.

C/C++ - Eclipse	
File Edit Source Refactor Navigate Search Run	Project Window Help
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	1

# 2. Step 2: Create Source Files

- 2.1. Select File  $\rightarrow$  New  $\rightarrow$  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.

New Source	File	
Source File Create a new s	ource file.	C
Source folder:	helloworld	Browse
Source file:	hello.cpp	
Template:	Default C++ source template	Configure
?	(	Finish Cancel

2.2. Type the following code into the blank editor

#include <iostream>

using namespace std;

int main()

{

```
cout << "My name is xxxxxx" << endl;
cout << "My TxState ID is xxxxx" << endl; //prints My TxState ID is xxxxx
```

//prints My name is xxxxxxx

return 0; }

Note: Replace xxxxx with your name and your ID



2.3. Select File  $\rightarrow$  Save (or Ctrl + S)

#### 3. Step 3: Build a Project

3.1. Select **Project** → Build All

oking Command: sh -c 'g	++ -E -P -v -dD C:ugins/or	g.eclipse.cdt.mak	e.core/specs.cp
Always run in background			

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

# Click here to download full PDF material