

Creating a new C++ project in Qt Creator

In this guide, I show you how to create a new C++ project in Qt Creator.

Requirements

You need to have downloaded and installed:

1. Qt 5.15
2. CMake 3.17.3

Steps

Follow the below steps to create a new C++ project.

Step 1

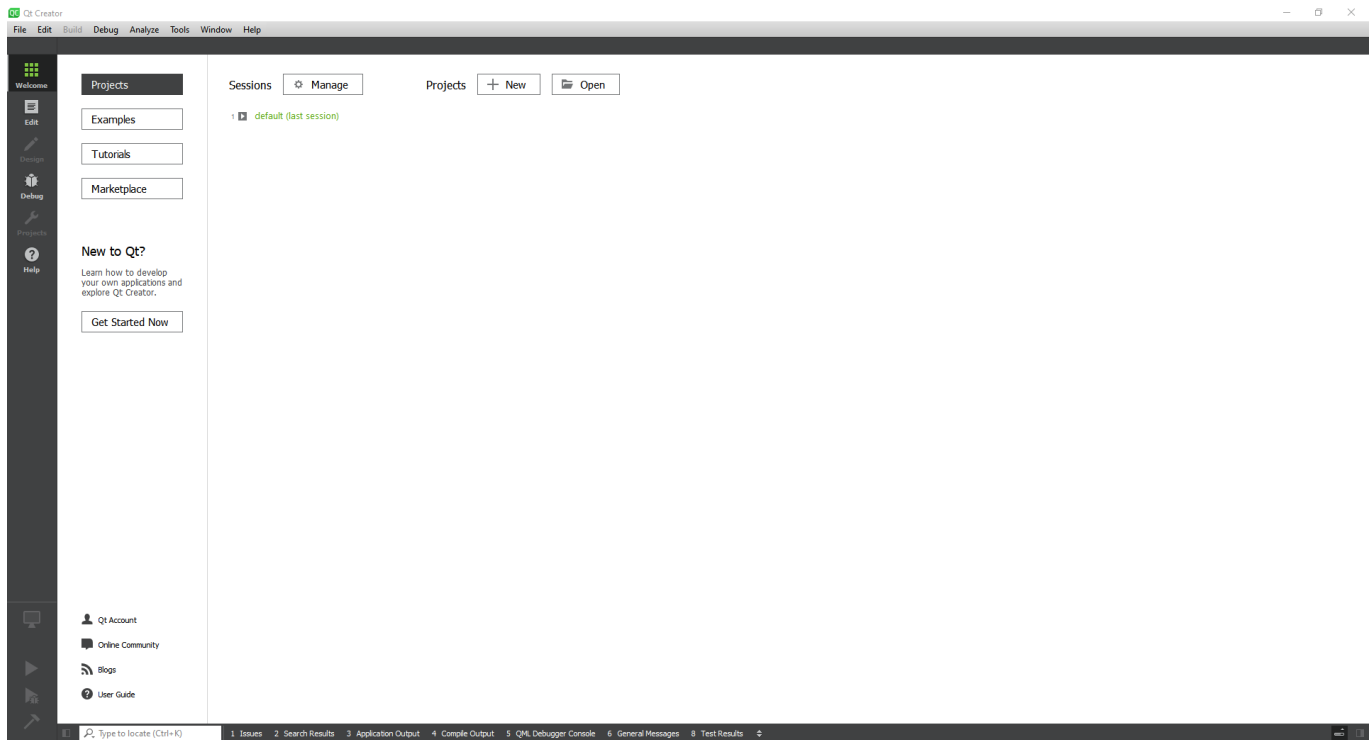
Either:

1. Left click on the Start menu icon.
2. Scroll down to "Qt".
3. Left click on the icon.
4. Scroll down to "Qt Creator 4.12.3 (Community)".
5. Left click on the icon.

Or:

1. Press the `WINDOWS` key.
2. Type the string "Qt Creator 4.12.3 (Community)".
3. Press the `Enter` key.

When done, you should see a window similar to the following:



Step 2

Either:

1. Left click on the "File" menu.
2. Left click on the "New File or Project...",

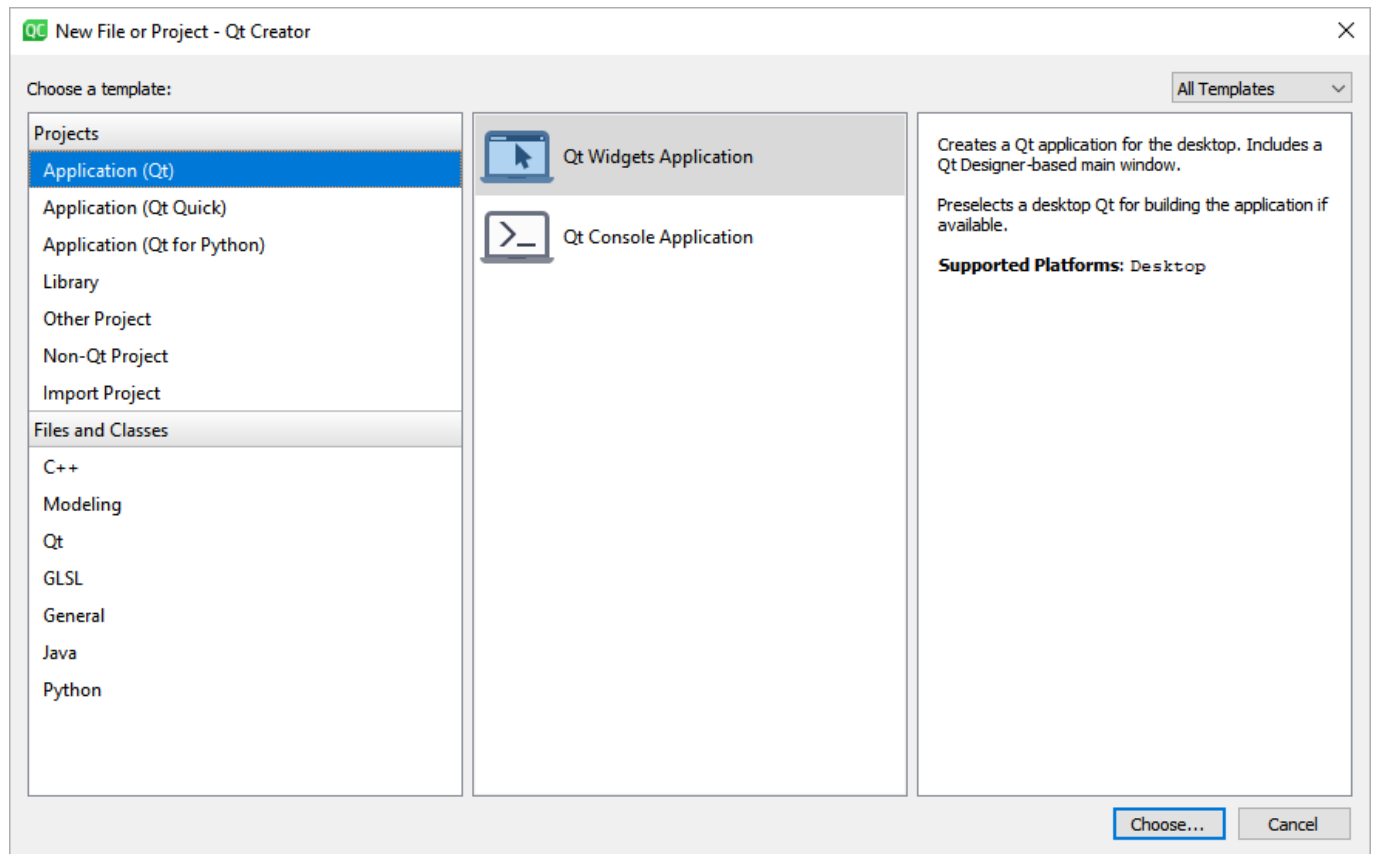
Or:

1. Press CTRL + N.

Or:

1. Press on the "+ New" button.

When done, you should see a window similar to the following:



Step 3

Left click on "Non-Qt Project".

Left click on "Plain C++ Application".

Left click on the "Choose..." button.

When done, you should see a window similar to the following:



Plain C++ Application

Location

Build System

Kits

Summary

Project Location

Creates a simple C++ application with no dependencies.

Name:

Create in:

☐ Use as default project location

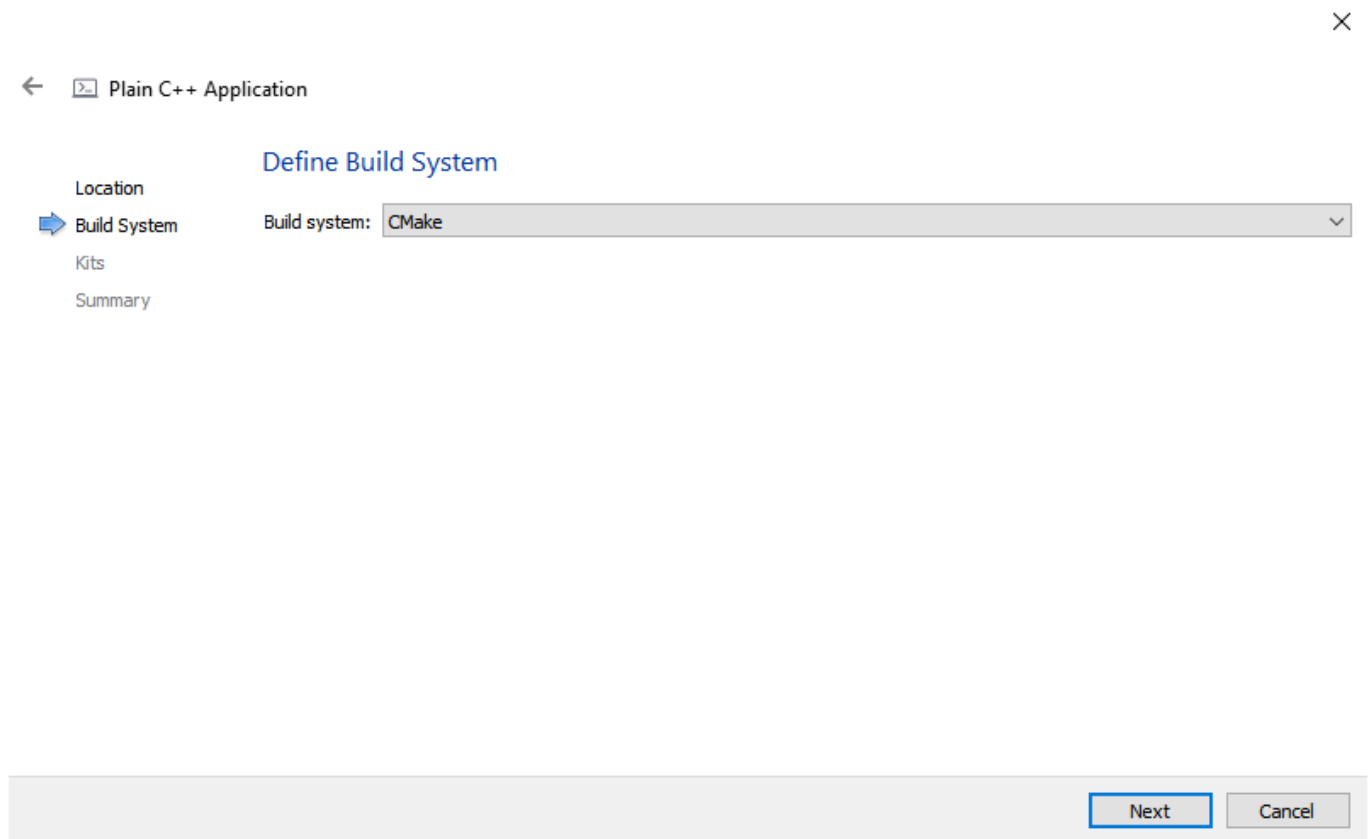
Step 4

Change the "Name:" text box to what you want your project to be called.

Change the "Create In:" text box to a directory where you want your project to be saved.

Left click on the "Next" button.

When done, you should see a window similar to the following:



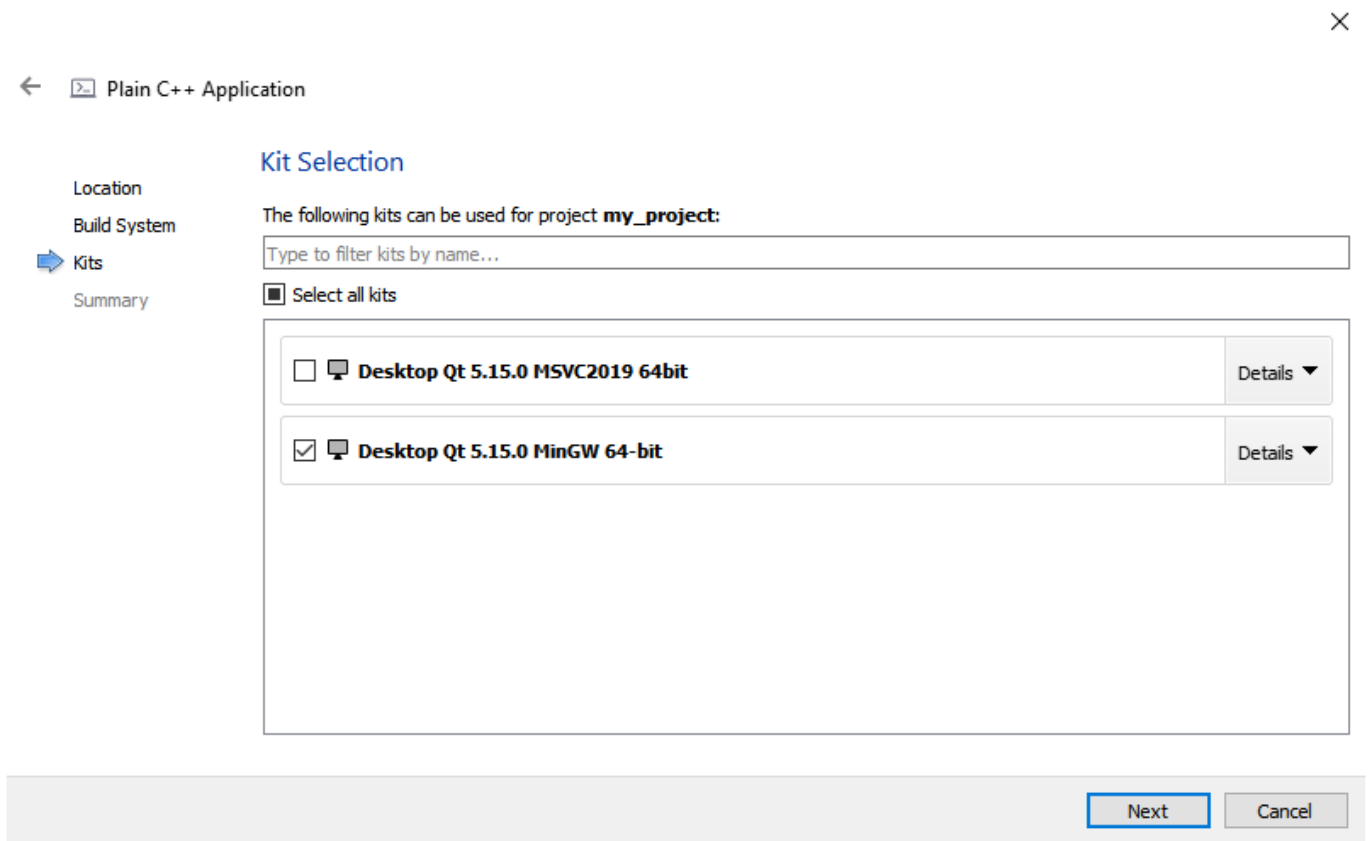
Step 5

Change the "Build System" drop-down menu to the build system you want to use. Here, I've used CMake.

Note: To use CMake, you need to have CMake installed. You can download it from here: <https://cmake.org/>.

Left click on the "Next" button.

When done, you should see the window similar to the following:

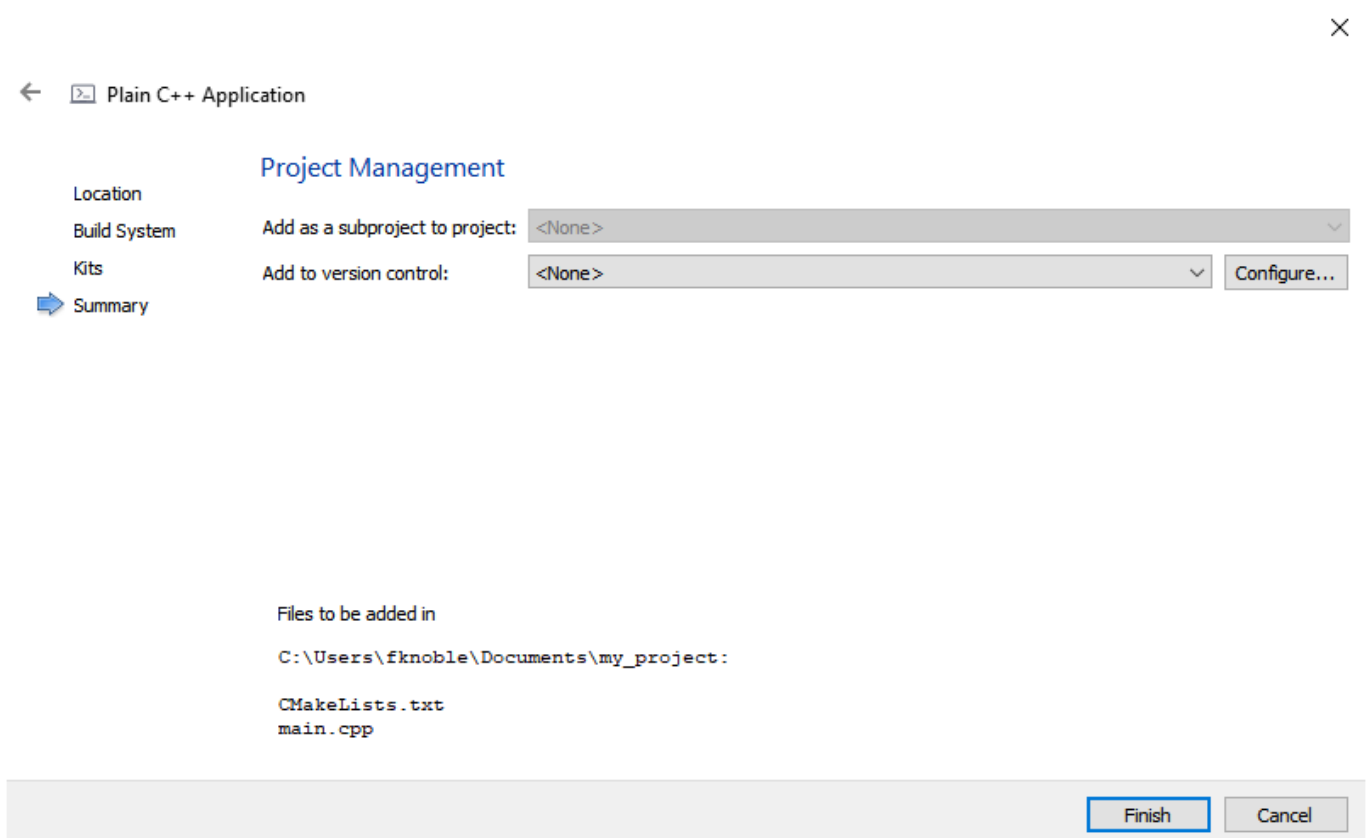


Step 6

Left click on a kit you want to use.

left click on the "Next" button.

When done, you should see the following window:

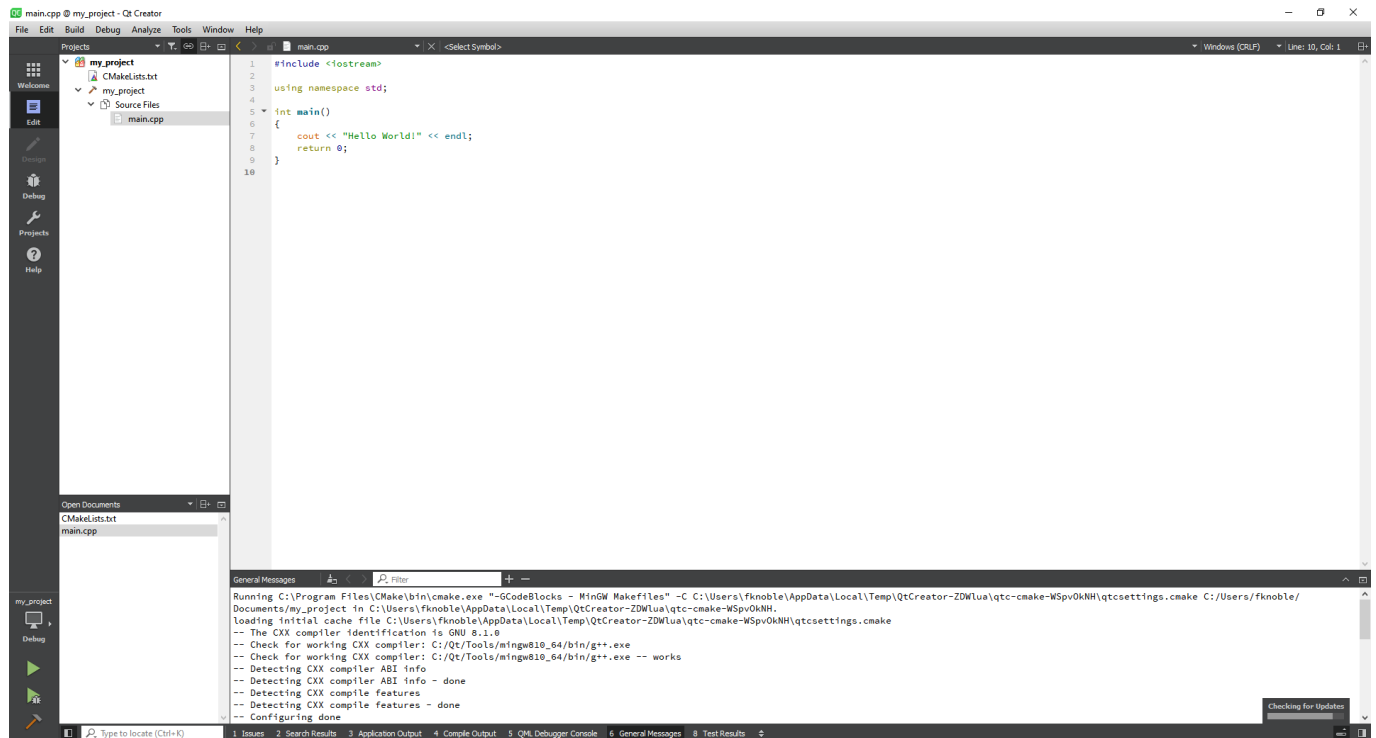


Note: When you install Qt, you need to select the kits you want to use. Here, I installed the MinGW 64-bit and the MSVC 2019 64-bit kits.

Step 7

Left click on the "Finish" button.

When done, you should see a window similar to the following:



Step 8

Either:

1. Left click on the "Build" menu.
2. Left click on the "Run" button.

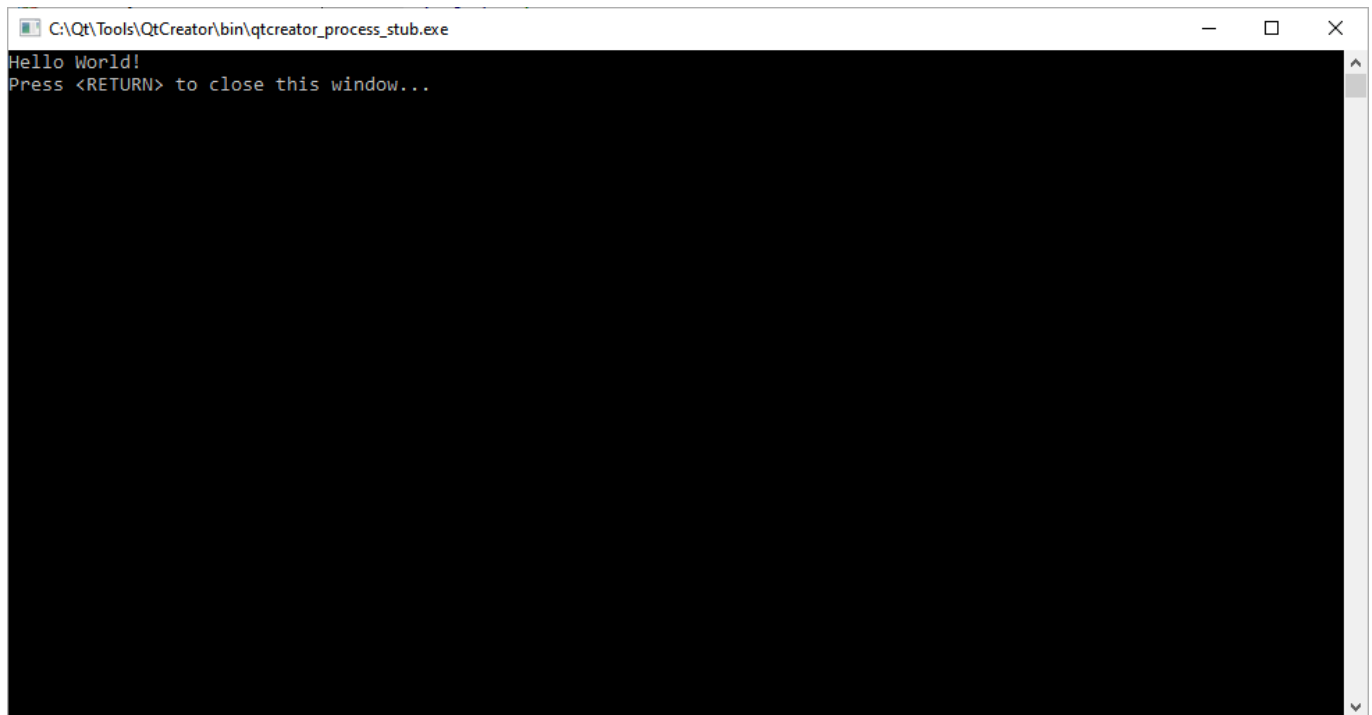
Or:

1. Press CTRL + R.

Or:

1. Press the "Run" button.

When done, you should see a window similar to the following:

A screenshot of a Windows application window titled "C:\Qt\Tools\QtCreator\bin\qtcreator_process_stub.exe". The window has a black background and white text. The text reads "Hello World!" followed by "Press <RETURN> to close this window...". The window has standard Windows window controls (minimize, maximize, close) in the top right corner. A vertical scrollbar is visible on the right side of the window.

```
C:\Qt\Tools\QtCreator\bin\qtcreator_process_stub.exe
Hello World!
Press <RETURN> to close this window...
```

Conclusion

If you've followed these steps correctly, you've built your first C++ program.

Credit

Dr Frazer K. Noble
Department of Mechanical and Electrical Engineering
Massey University
Auckland
New Zealand