

# Installing Qt Creator

Firstly download the .exe file (from DISK2017) on to your hard disk. Once the .exe is saved on the hard disk, double click the file **qt-opensource-windows-x86-mingw482\_opengl-5.3.0.exe**. During installation, you will be given a number of options. We recommend that you accept all the defaults.

## 1. Using the software

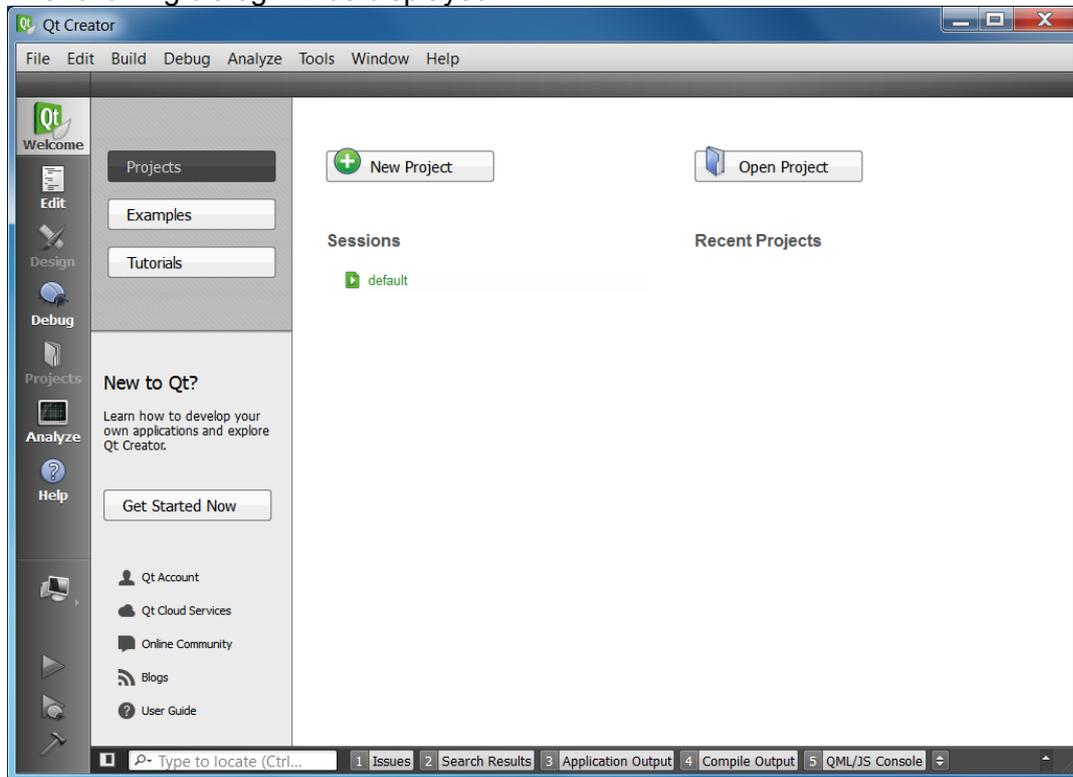
To help you get started, we present a short guide to your first "Hello Qt" program.

### Step 1. Starting Qt Creator

Double-click the Qt Creator shortcut on your desktop.

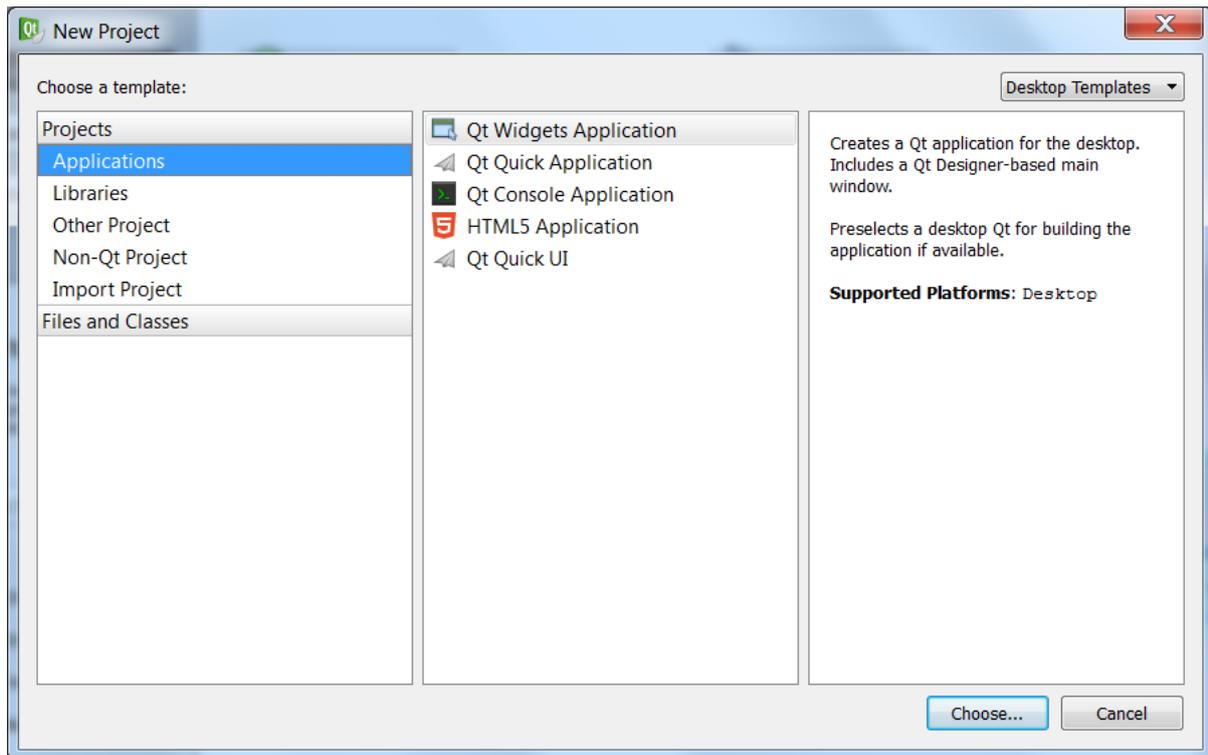


The following dialog will be displayed:

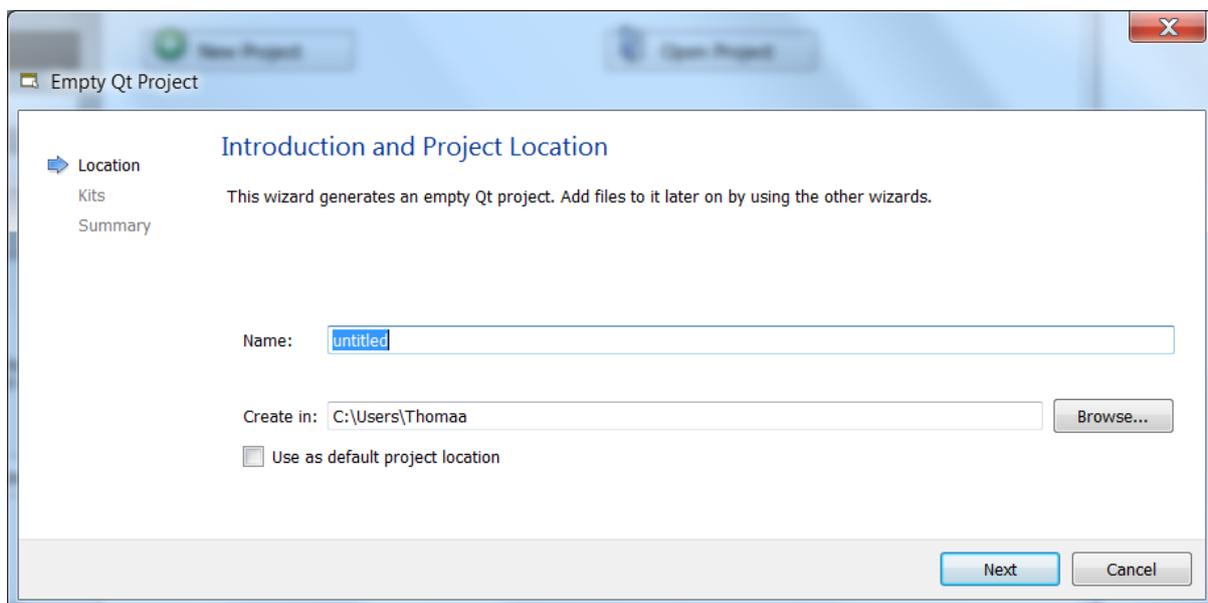


### Step 2. Creating a project

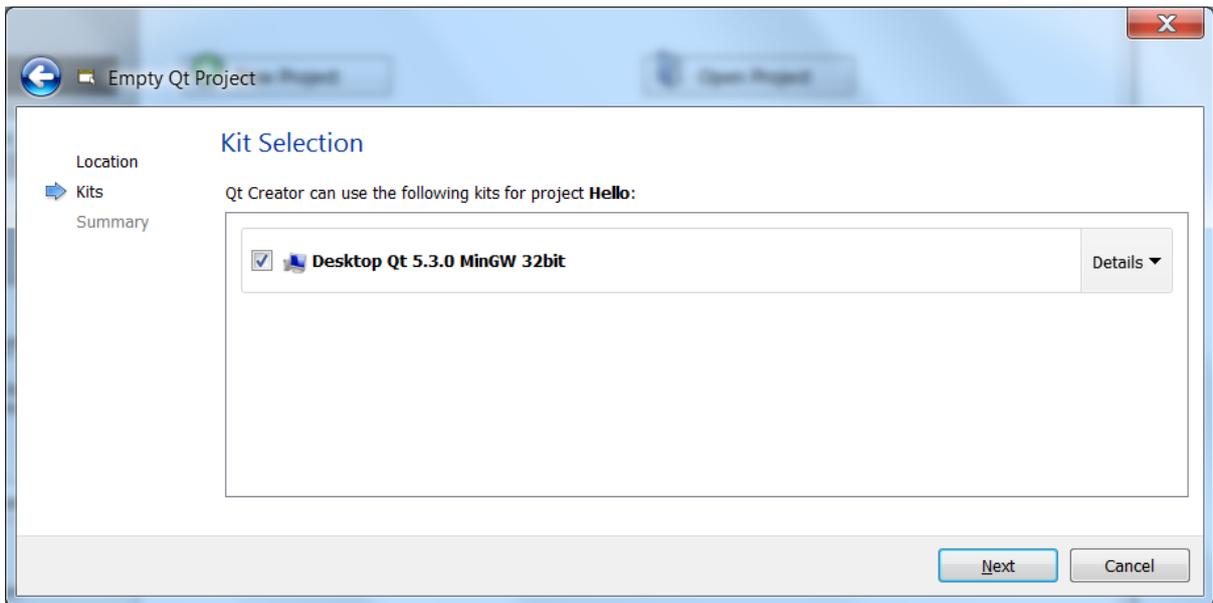
Click on the New Project button. The following dialog will be displayed:



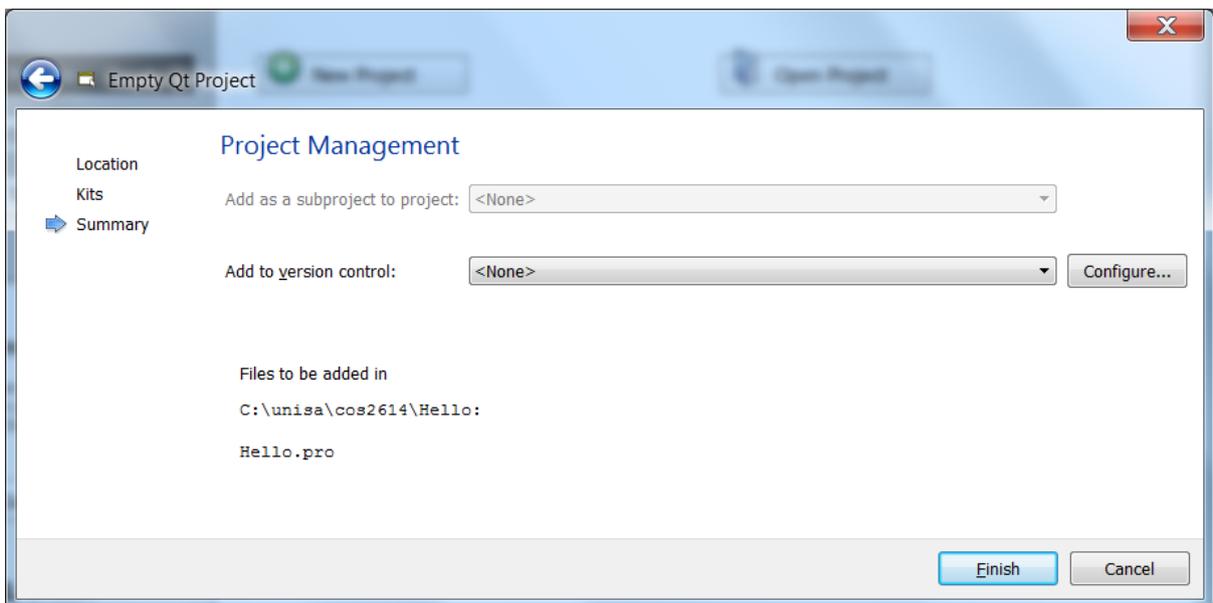
Select Other Project and then Empty Qt Project from the list of options and click on Choose.... The following dialog will be displayed:



Type **Hello** as the project name and change the location to your choice (e.g. **C:\unisa\cos2614**) and click on Next. The following dialog will be displayed:



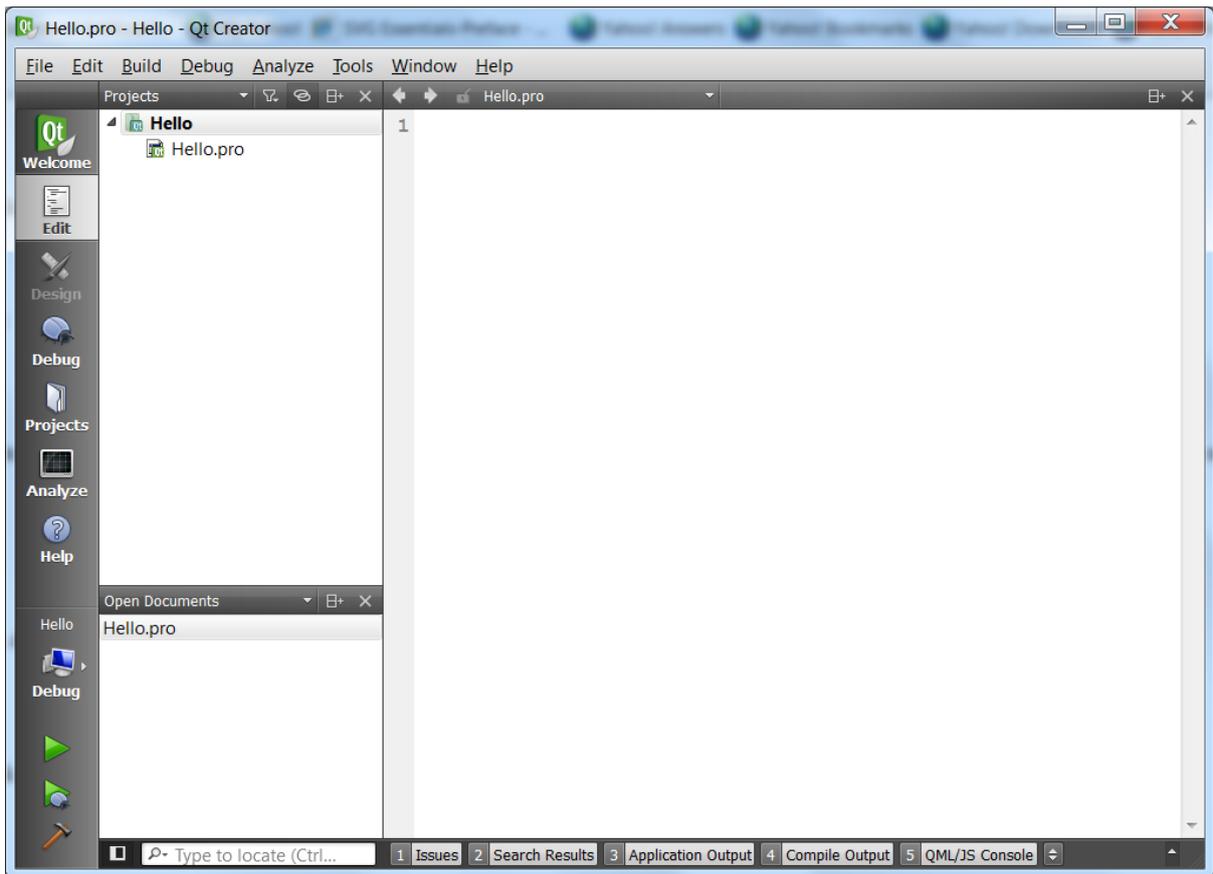
Click on Next. The following dialog will be displayed:



Leave everything as is on the Project management dialog and click on Finish.

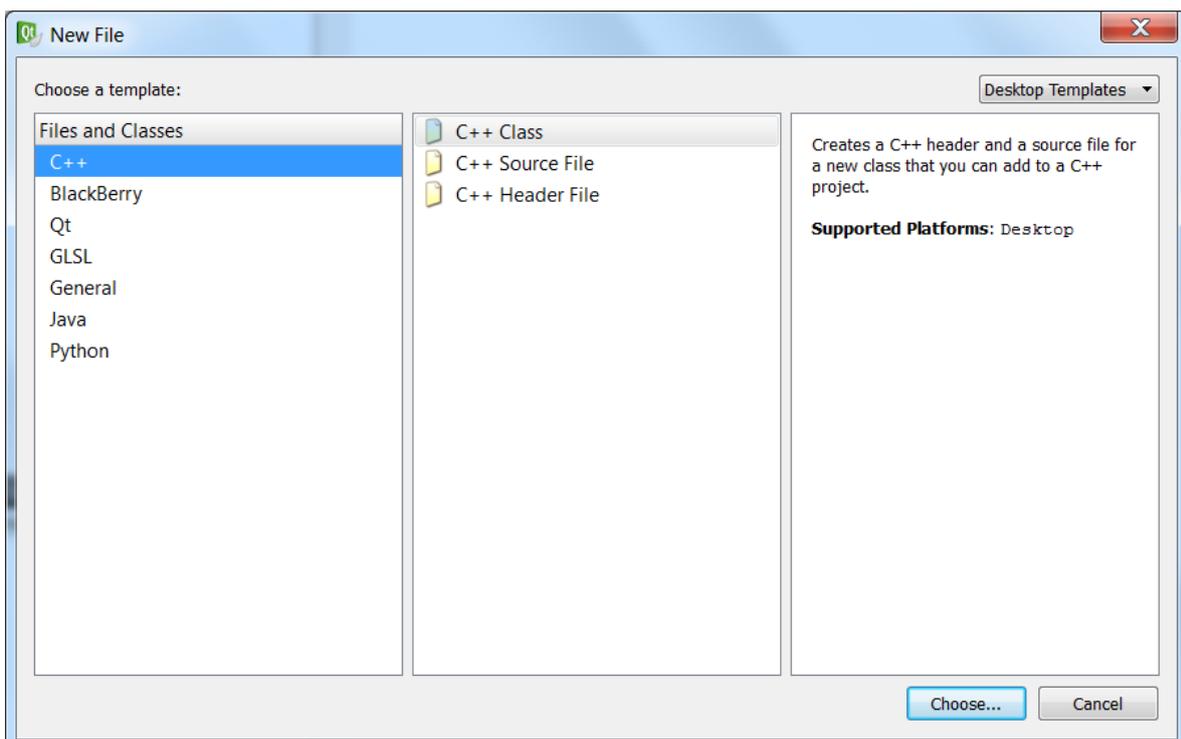
### Step 3. Editing a C++ source file

At this stage, you have an empty project without any source code:

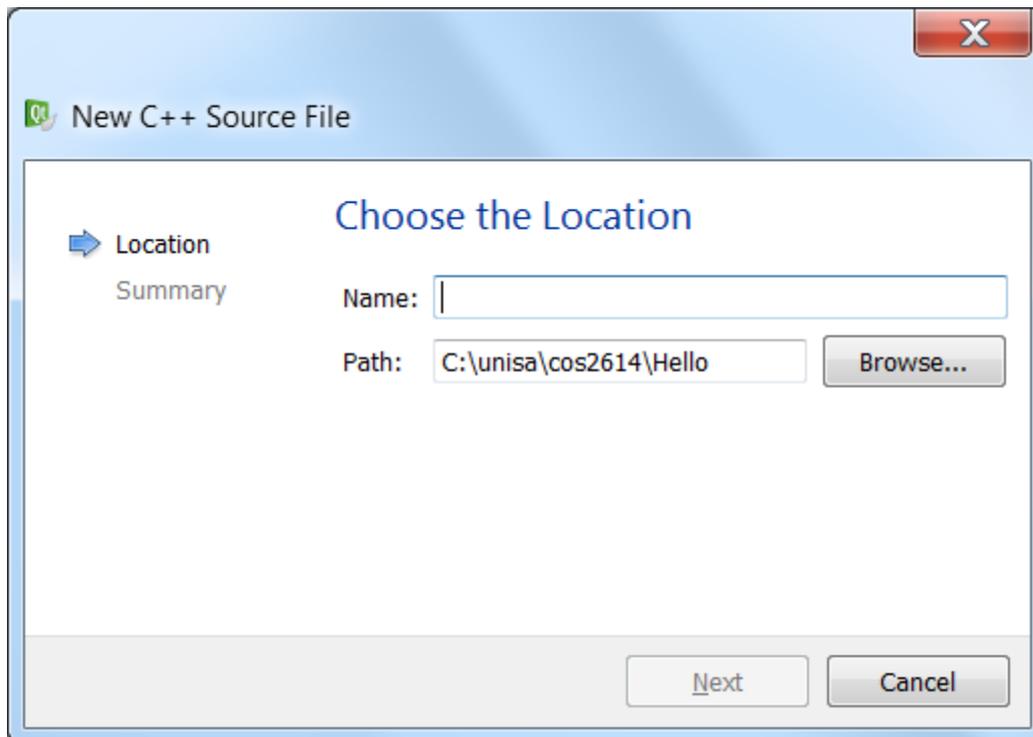


There are different ways of adding a source file to your project. In this situation, we want to add a new source file, so right-click on the project name **Hello** and choose Add New... on the popup menu.

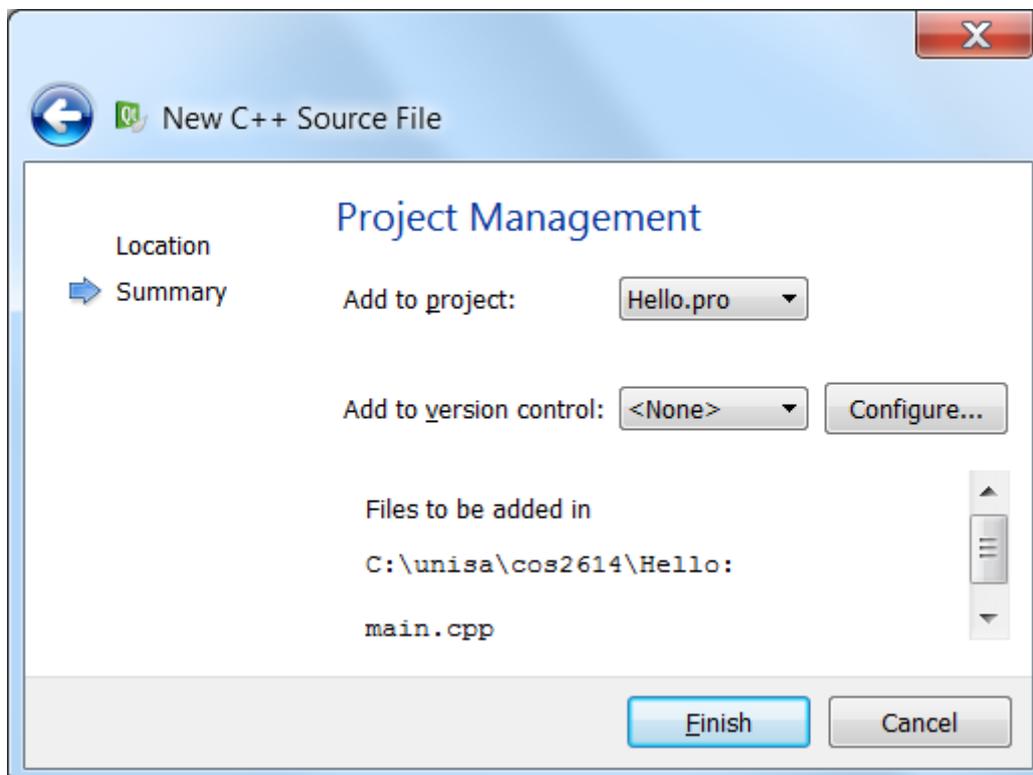
The following dialog will be displayed:



Select C++ Source File from the list and click on Choose.... A dialog requesting the file name and its location will be displayed:



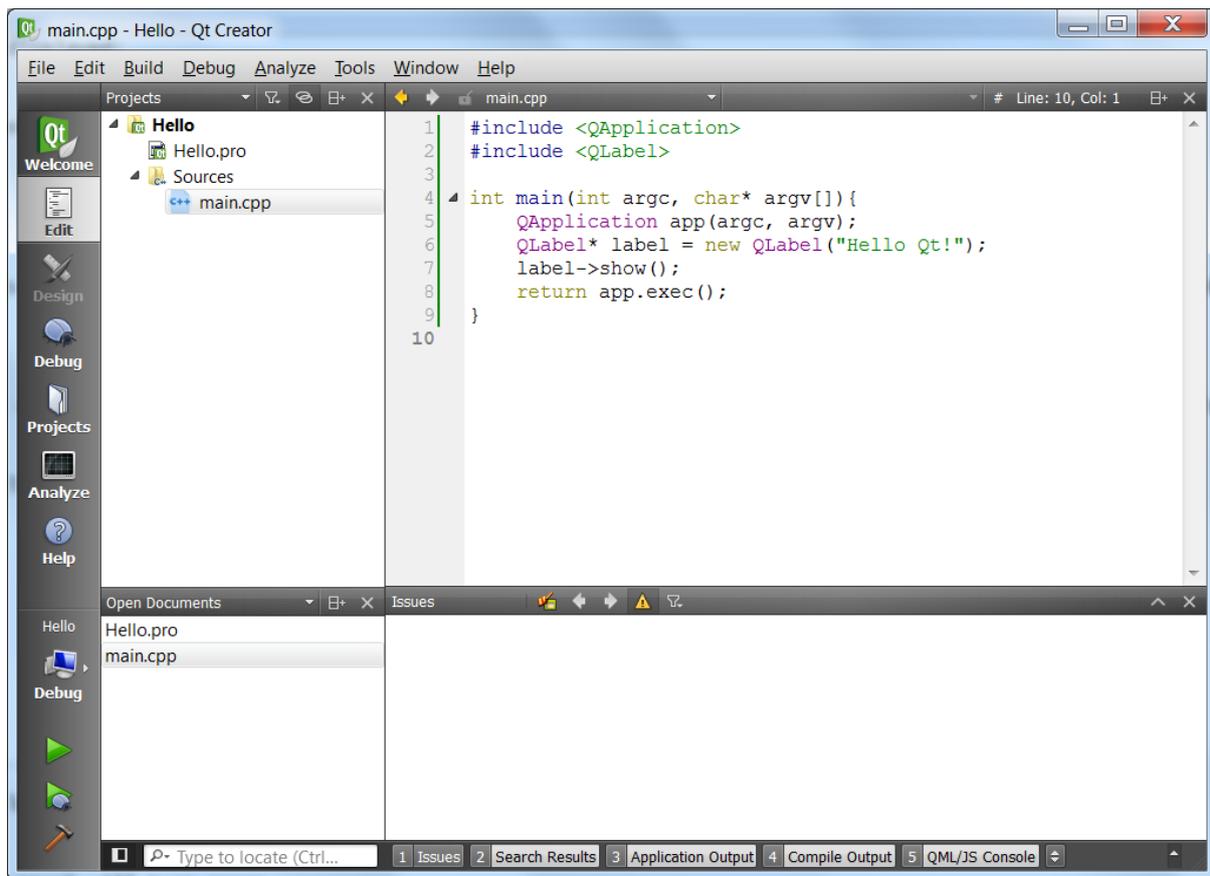
Enter the name of the file (eg. **main**), leave the path as is and click on Next.



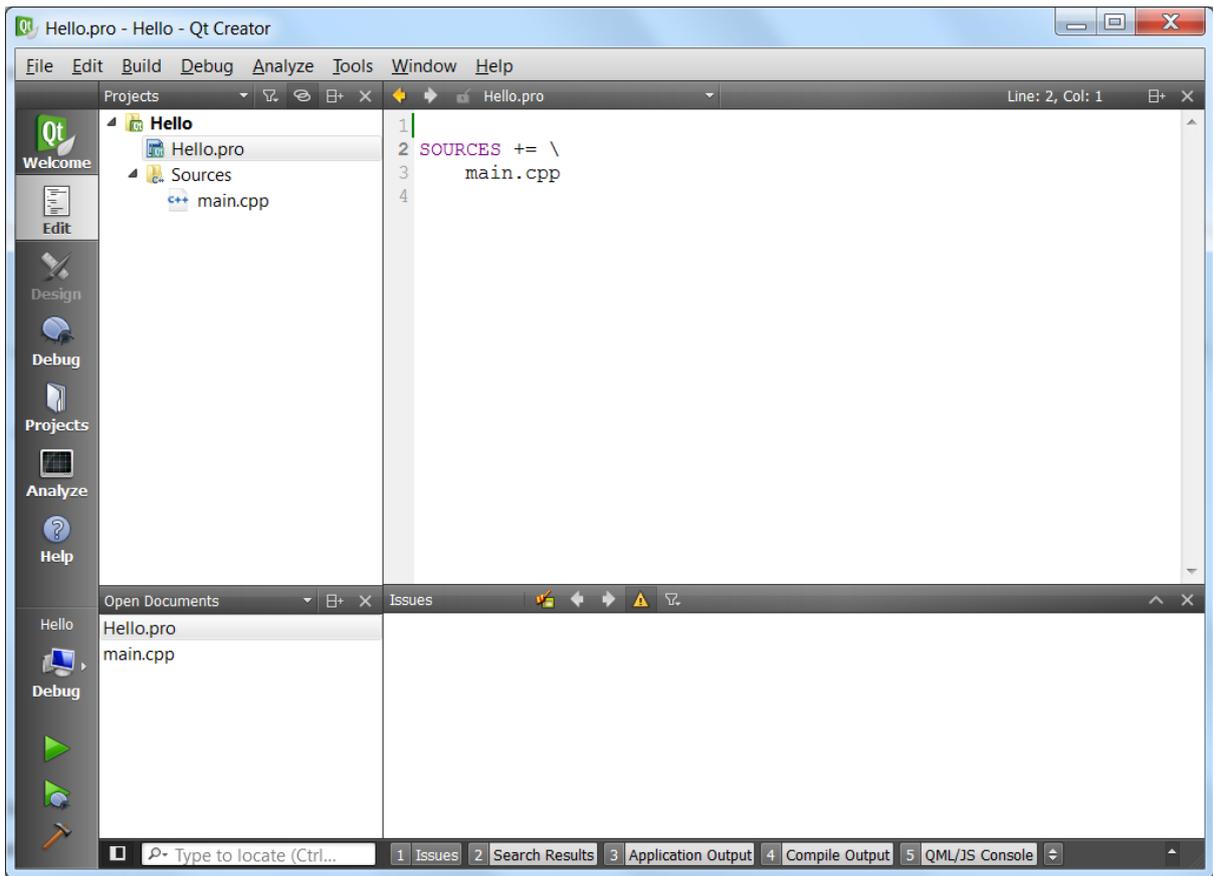
Click on Finish.

An empty **main.cpp** file will appear in the Edit panel.

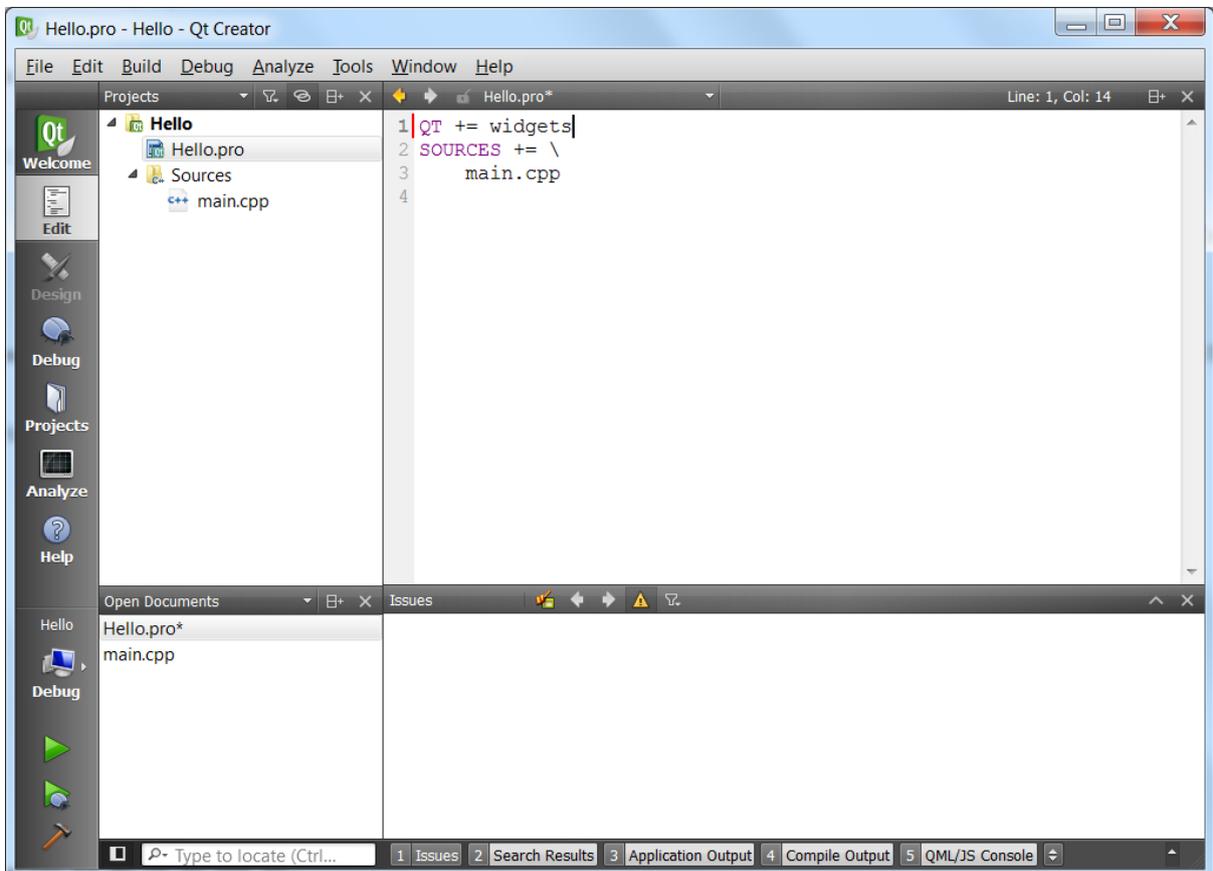
Type in the following code:



Double click on **Hello.pro** which will display the following in the Edit panel:



Edit **Hello.pro** to add QT += widgets

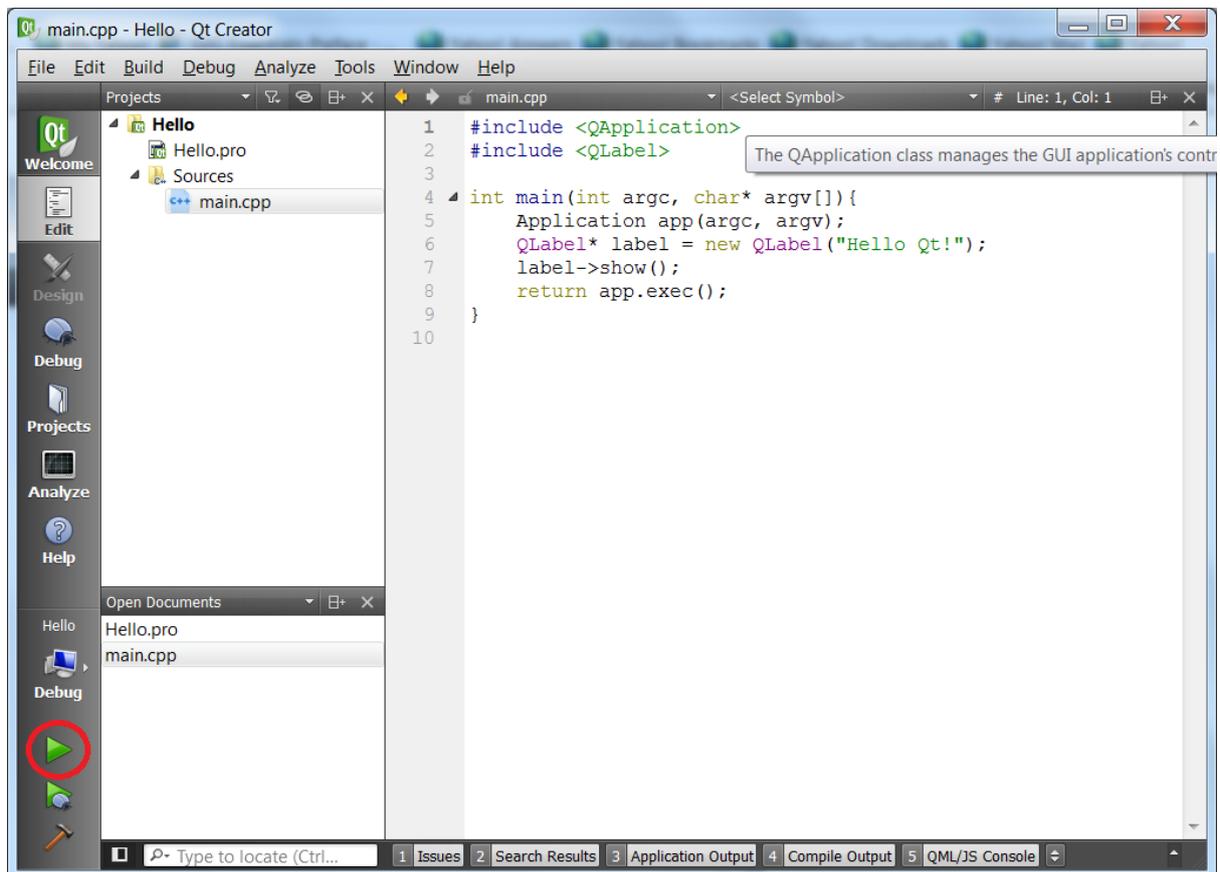


Select **File** and **Save All** to save all the changes you have made.

#### Step 4. Building and running the program

It is possible to build and run a program separately, but it's easier to do it in one go.

Click on the Run button (the button with a green triangle in the bottom left-hand corner - circled in red here).



If the build is successful, a small window should appear somewhere on the screen displaying the message **Hello Qt!**. You can resize the window.



If the build was unsuccessful, make sure you have entered the program correctly and re-run the project.

When you have finished admiring your first Qt program, close the little window.

## 2. More on Qt Creator

Please refer to TL 102 (available on *myUnisa* under Additional Resources).