

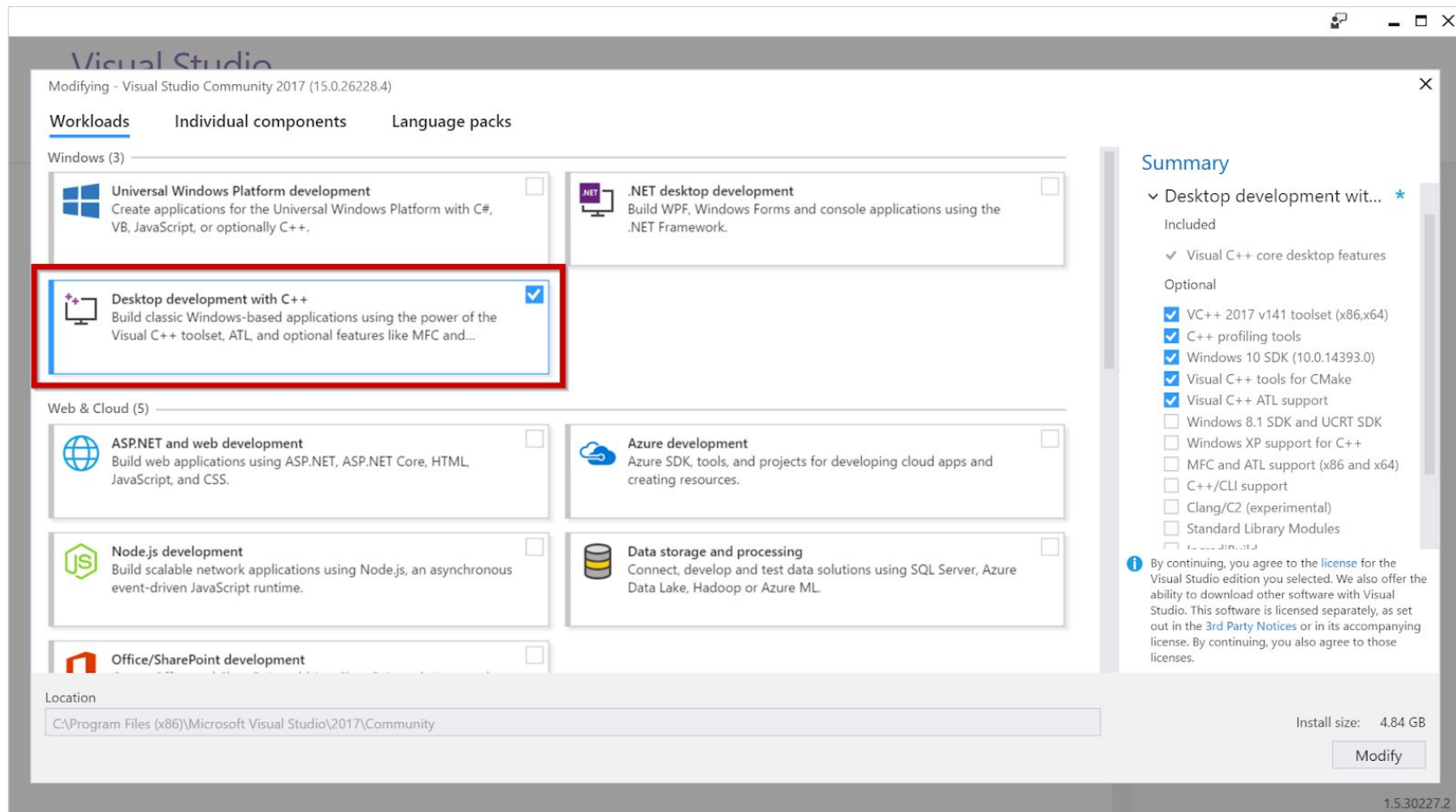


CodeLab I (CCO4000-20)
Getting Started with Visual Studio

Creative Computing
The School of Creative Industries
Bath Spa University

Installing Visual Studio

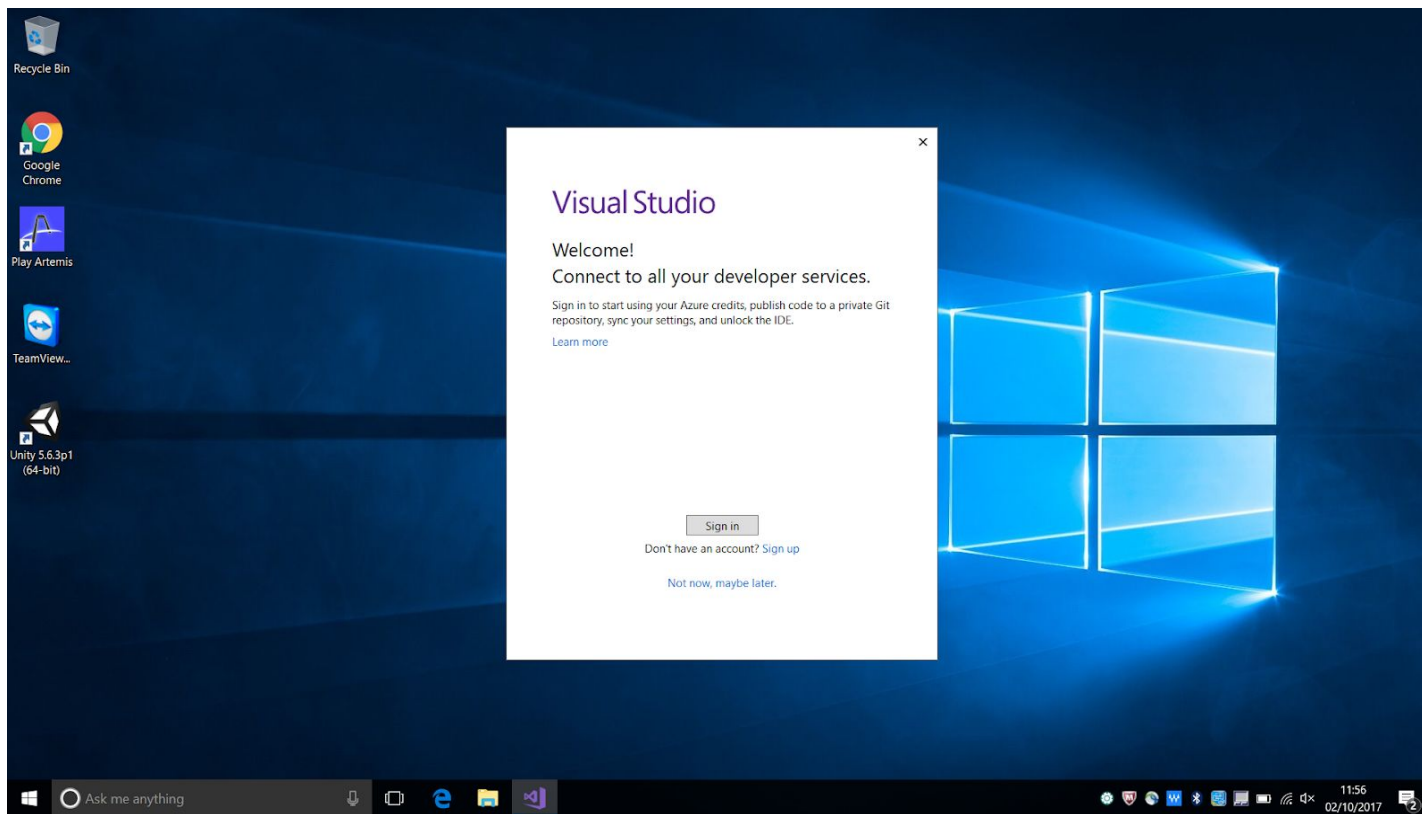
When downloading Visual Studio we recommend the community edition which is free. Also make sure you install the desktop development with C++ workload when installing. This will ensure you have all the necessary components to code in C++.



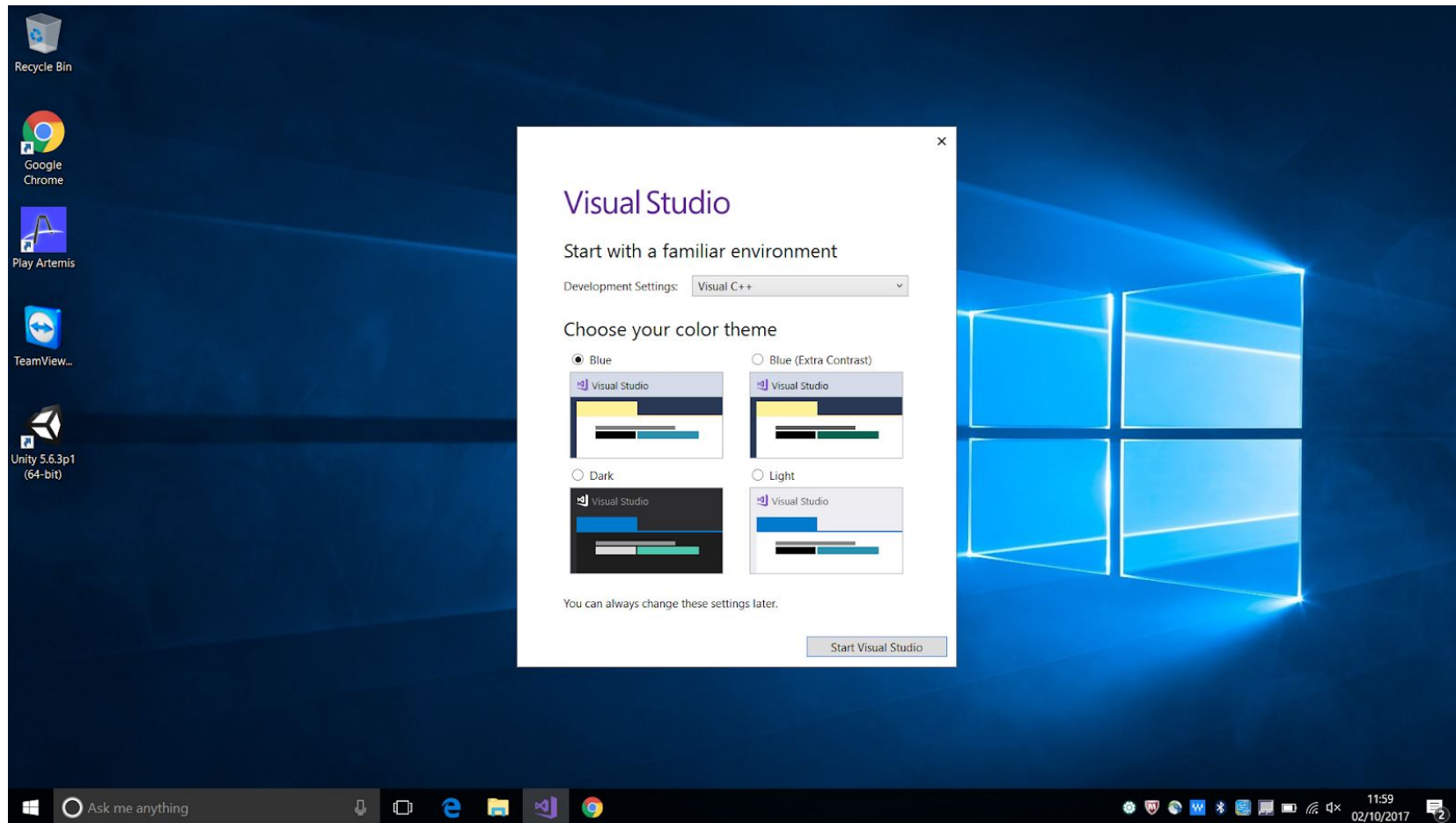
Getting Started with Visual Studio

If this is the first time loading Visual Studio you may be asked to carry out some initial setup

- Click *Sign In* or *Sign up* on initial sign in request screen
 - You can go straight to sign in if you have an existing microsoft account e.g. if you have a hotmail/outlook email account or microsoft office account.



- Select *Visual C++* from develop settings and choose your desired colour theme

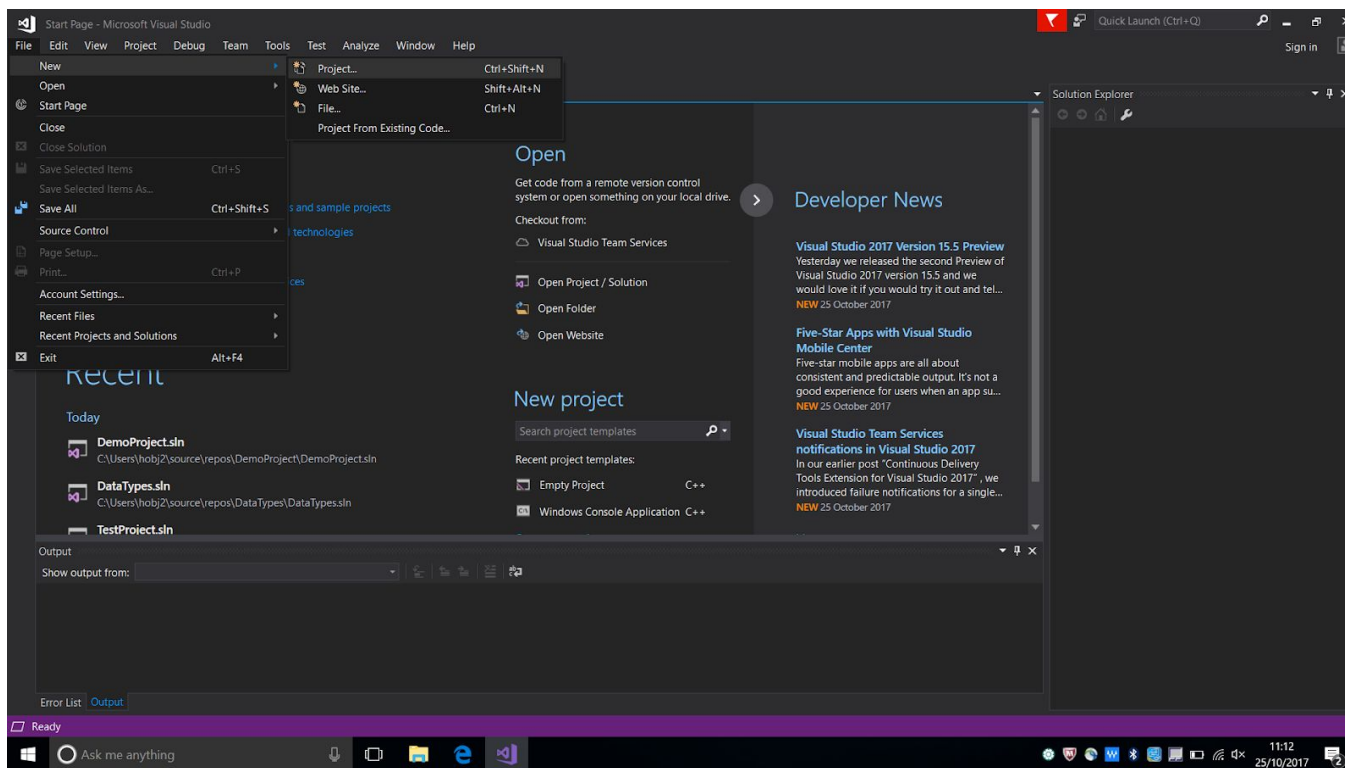


Create an Empty Project

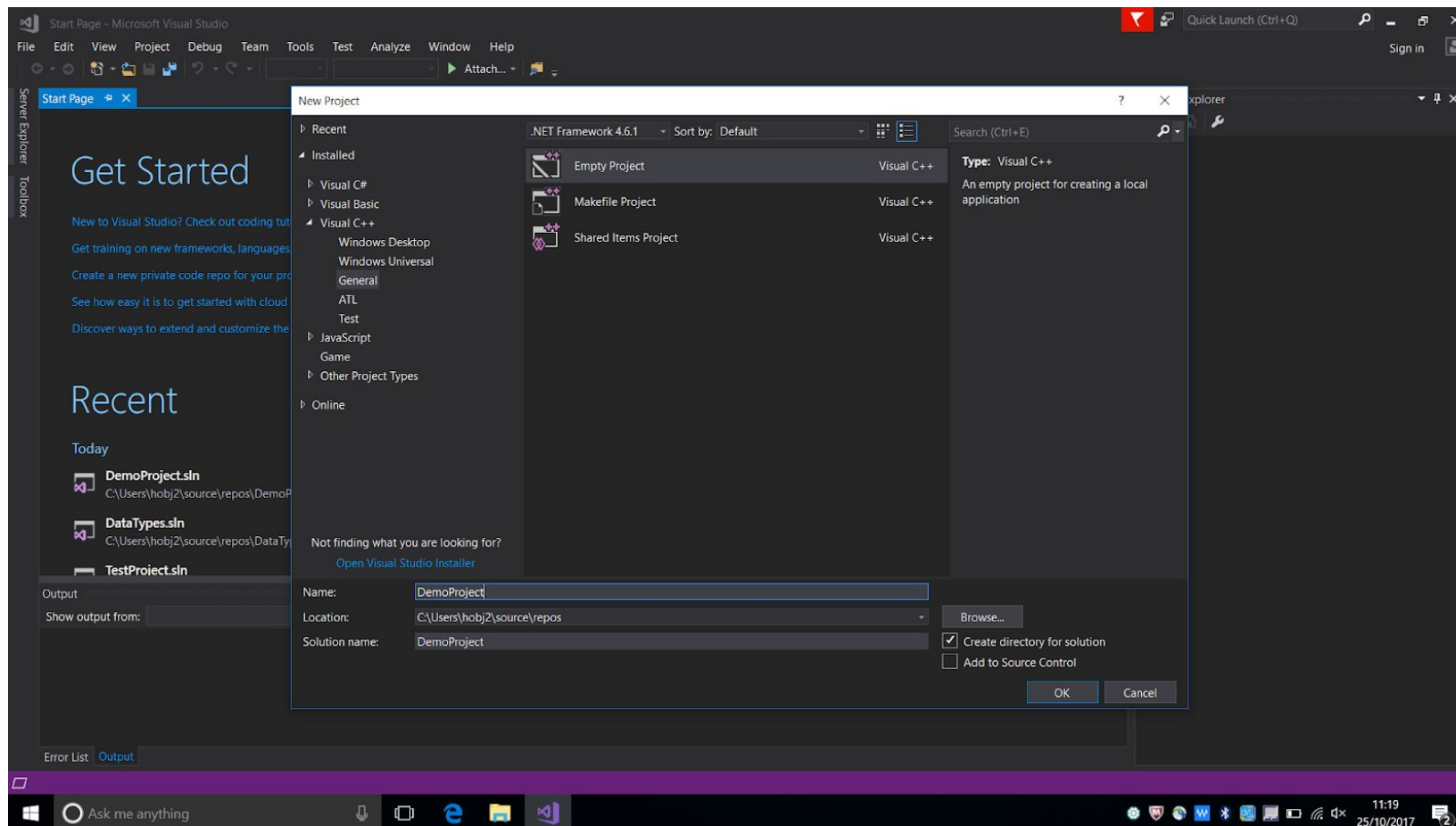
Before you start, make sure you have downloaded your CodeLab GitHub repository to store your C++ work.

For Visual Studio 2017

- Open Visual Studio
- File → New Project

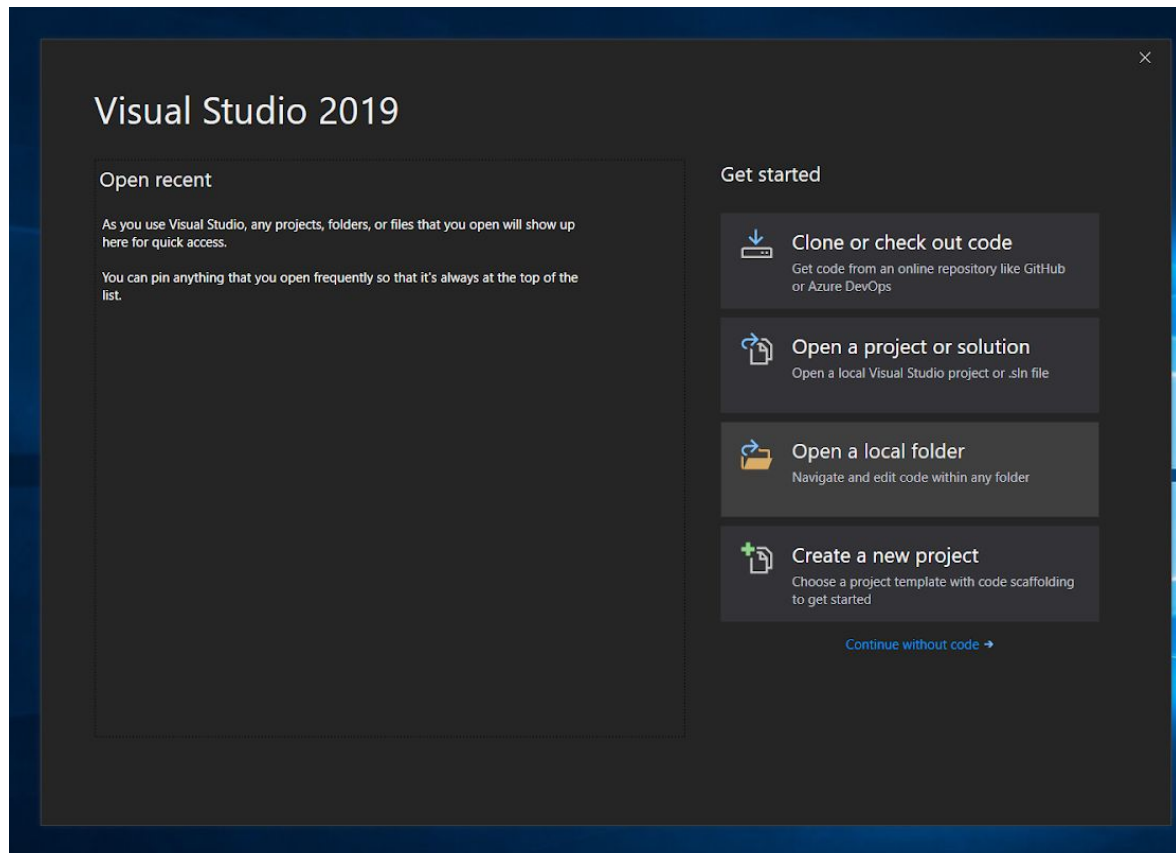


- Select *General* from under *Visual C++* on the left of the new project window
- Select *Empty Project* in the main window
- Give the project a name in the bottom window (e.g: HelloWorld) and select the folder you wish to save the project to (e.g. the exercises folder of your CodeLab GitHub repository)
- Click OK

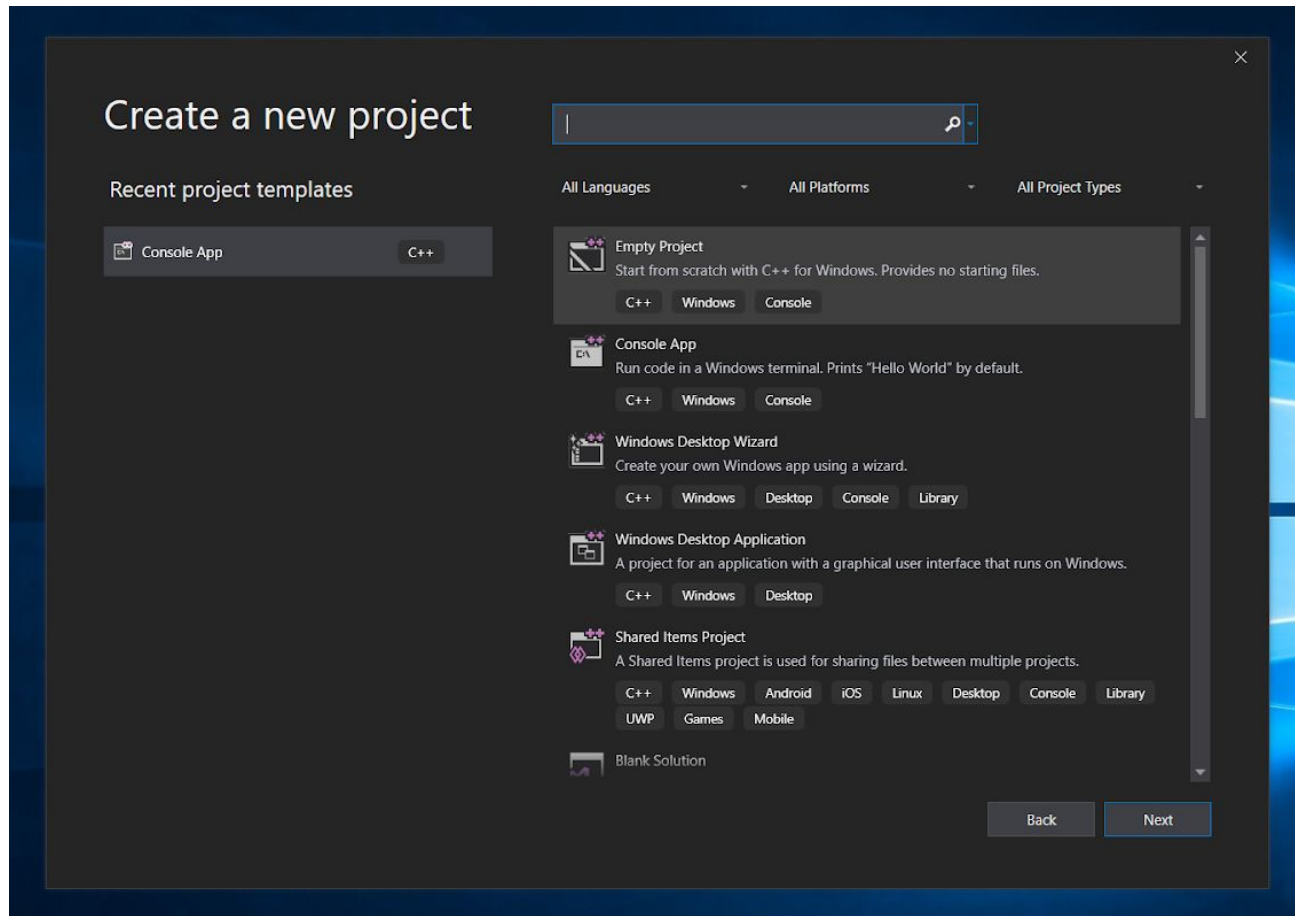


For Visual Studio 2019

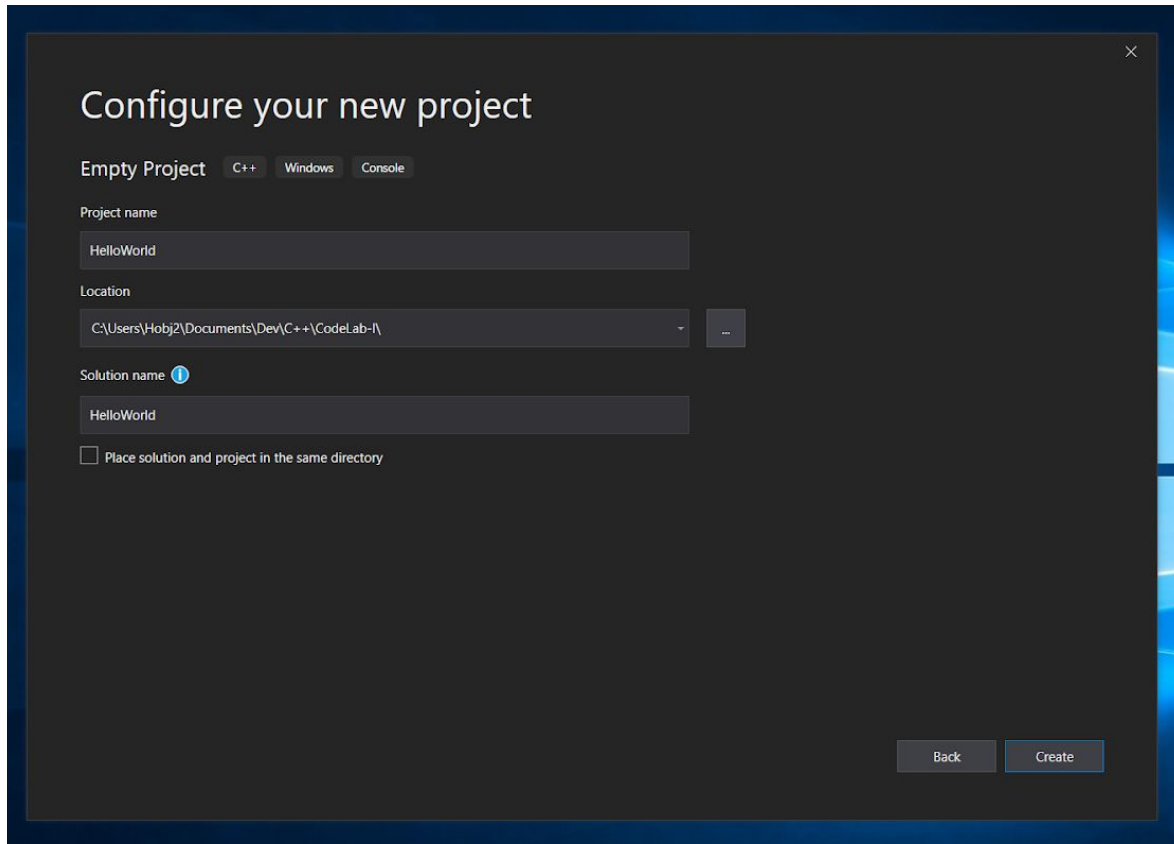
- Select *Create a new project* from the startup screen (or File → New Project if already in Visual Studio)



- Select Empty Project from the templates and click next



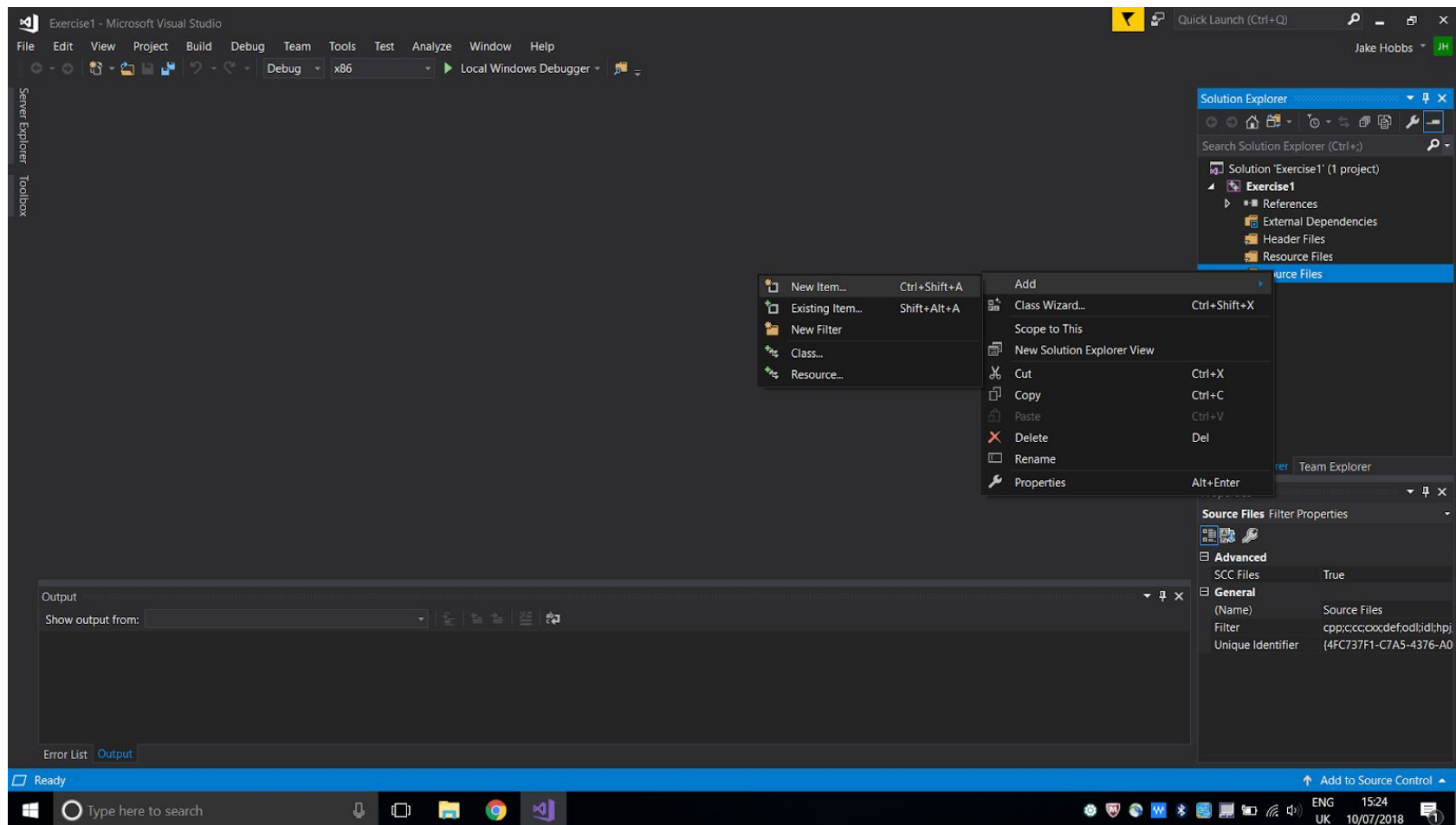
- Configure your project settings:
 - In the “*Project Name*” box provide a name for the project (e.g: HelloWorld)
 - In the “*Location*” box browse to the location where you want to save your project (e.g. the exercises folder of your CodeLab GitHub repository)



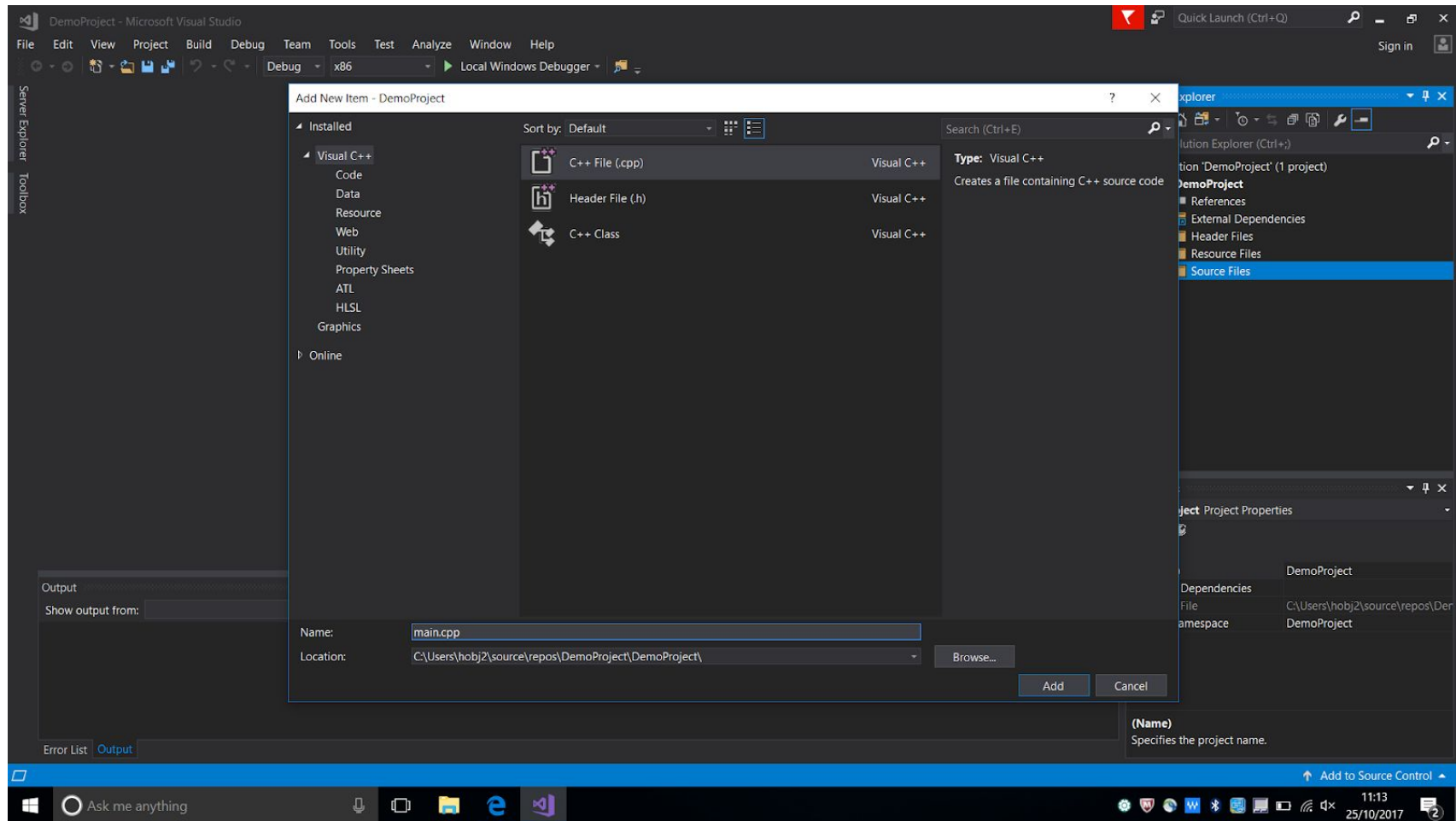
The screenshot shows a dark-themed dialog box titled "Configure your new project" with a close button (X) in the top right corner. Below the title, there are three tabs: "Empty Project" (selected), "C++", "Windows", and "Console". The "Project name" field contains the text "HelloWorld". The "Location" field shows the path "C:\Users\Hobj2\Documents\Dev\C++\CodeLab-I\" with a dropdown arrow and a browse button (...). The "Solution name" field, which has a blue information icon (i) to its left, also contains "HelloWorld". Below these fields is a checkbox labeled "Place solution and project in the same directory", which is currently unchecked. At the bottom right of the dialog are two buttons: "Back" and "Create".

The remaining steps are for both Visual Studio 2017 & 2019

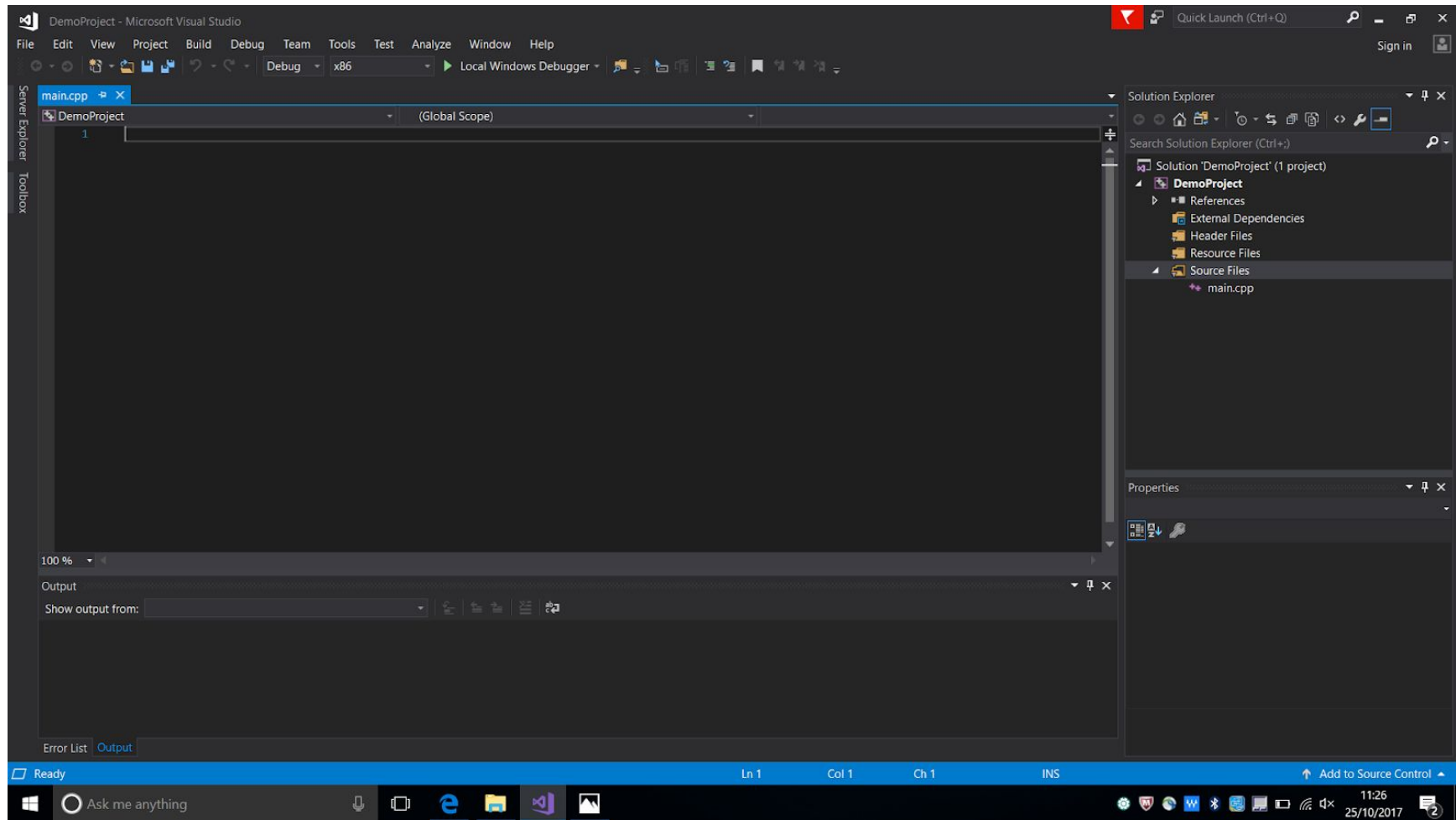
- You will be presented with the following screen. (Solution Explorer may appear on the left or the right).
- In the *Solution Explorer* window locate and right click the *Source Files* folder
- Click *Add* → *New Item* from the popup that appears



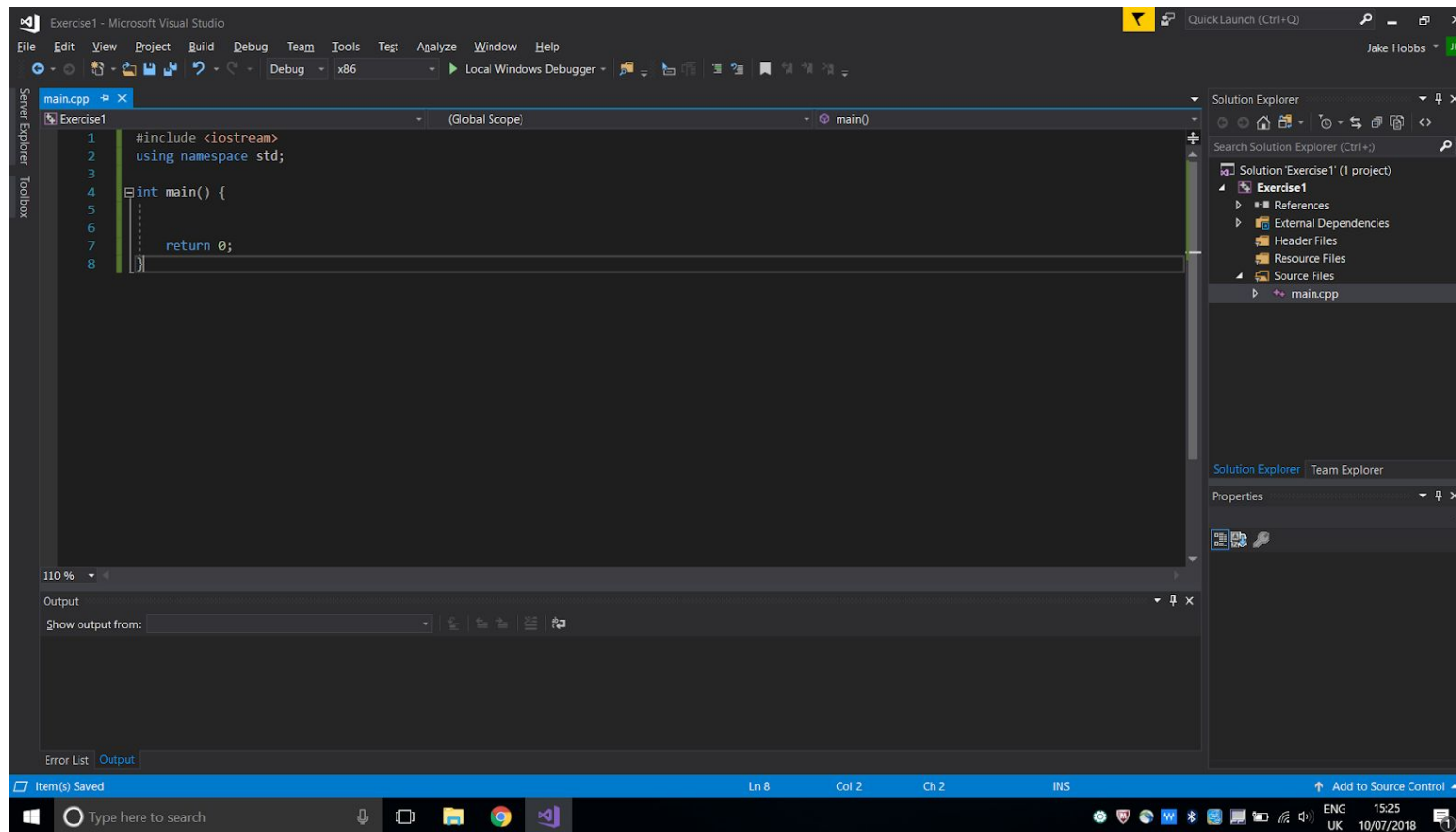
- Add a new C++ (.cpp) file and name it main.cpp. Click add.



- Your main.cpp file will initially be blank



- Add the following basic code to the file. You are now ready to code.



- You might find that the console window shut immediately when reaching the end of your program. If so simply add the following line at the end of your program. This line of code waits for input e.g. pressing enter.

`cin.get();`