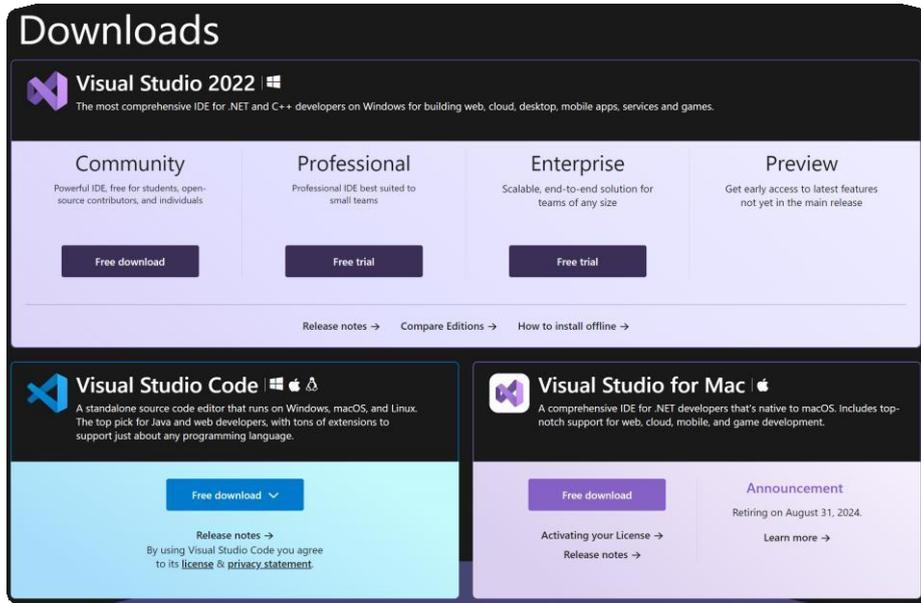


Create your first C++ app project.

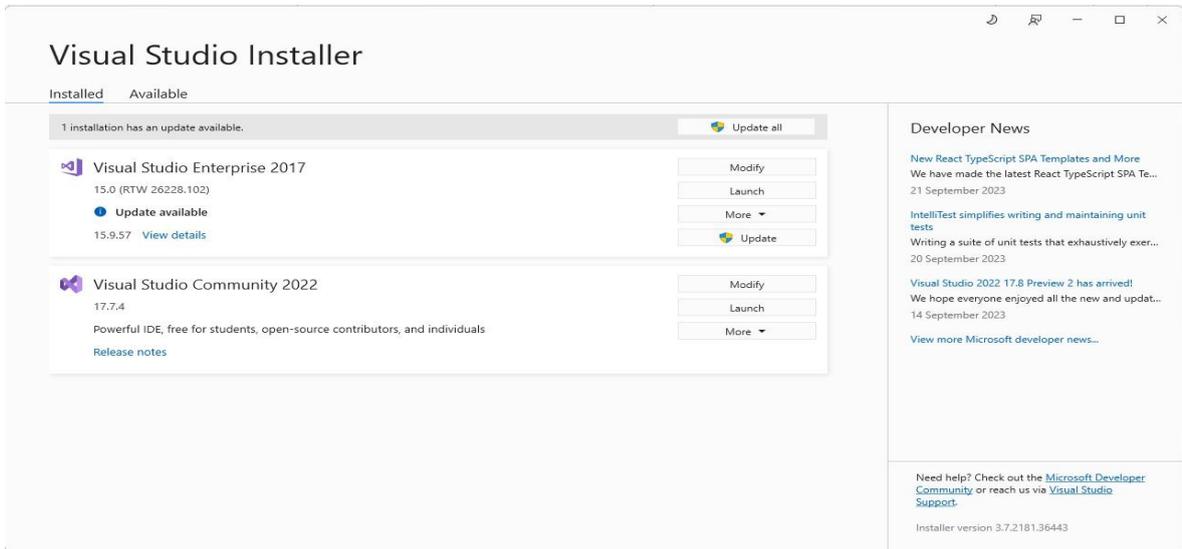
Step 1: Install Visual Studio 2022

- Download Visual Studio Community 2022 Here: <https://visualstudio.microsoft.com/downloads/>
- Make sure to select the "Desktop development with C++" workload during installation.



Step 2: Launch Visual Studio 2022

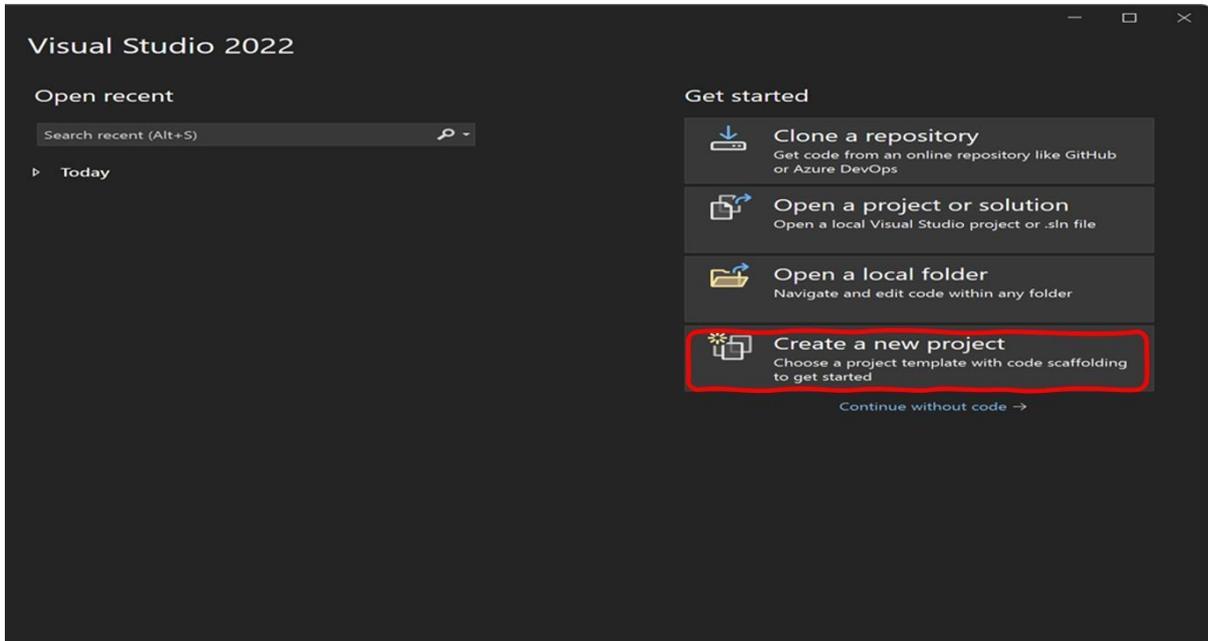
Once Visual Studio 2022 is installed, launch it from your Start menu or desktop.



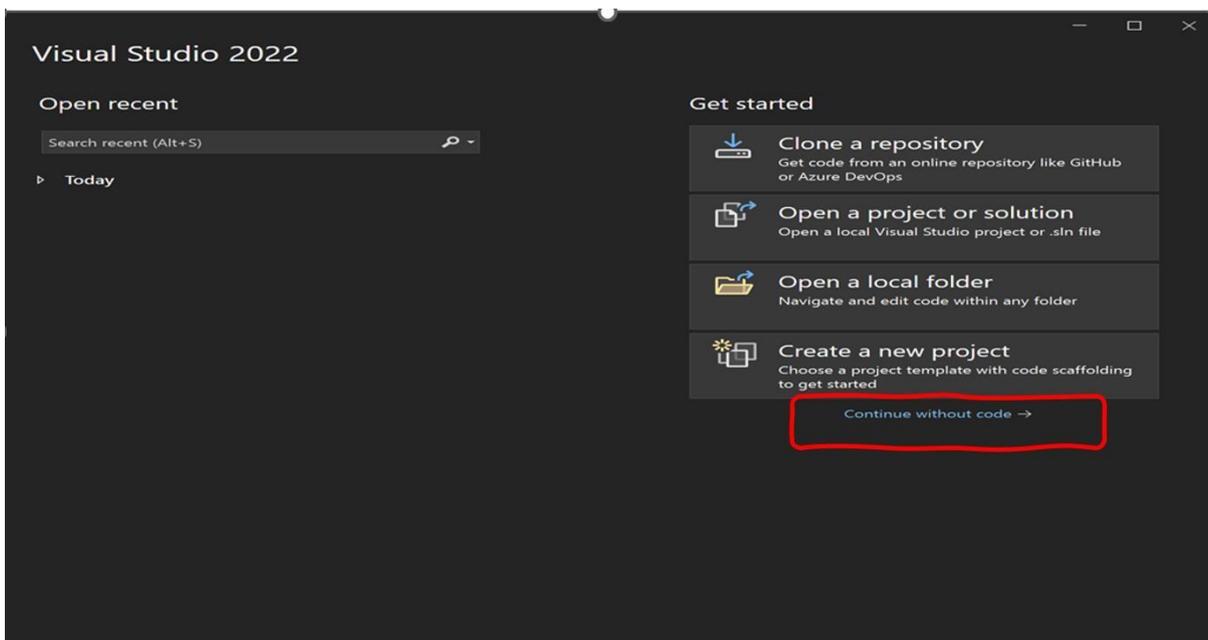
Step 3: Create a New Project

1. When you launch Visual Studio 2022, you'll have two main options to start a new project:

- **Create a new project:** This option allows you to select a project template and configure your project settings from scratch.



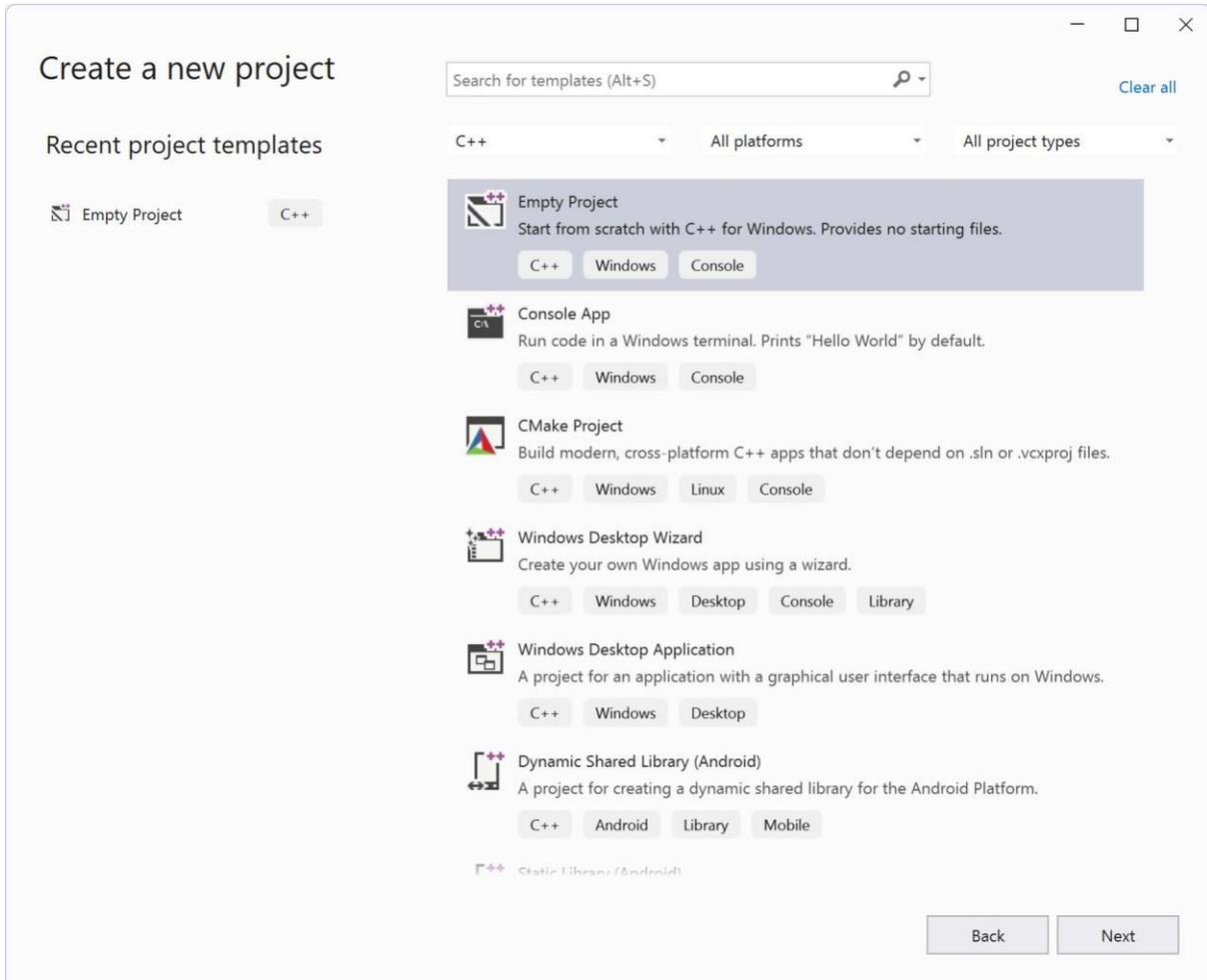
- **Continue without code:** This option allows you to open Visual Studio without creating a new project immediately. Then in Visual Studio, open the **File** menu and choose **New > Project** to open the **Create a new Project** dialog.



Step 4: Choose Project Type

1. In the "Create a new project" window, you'll see various project templates. Since we want to create a simple C++ application, select "C++" in the **Languages** drop down menu.

2. Select "Empty Project" from the search results. And then click **next**.

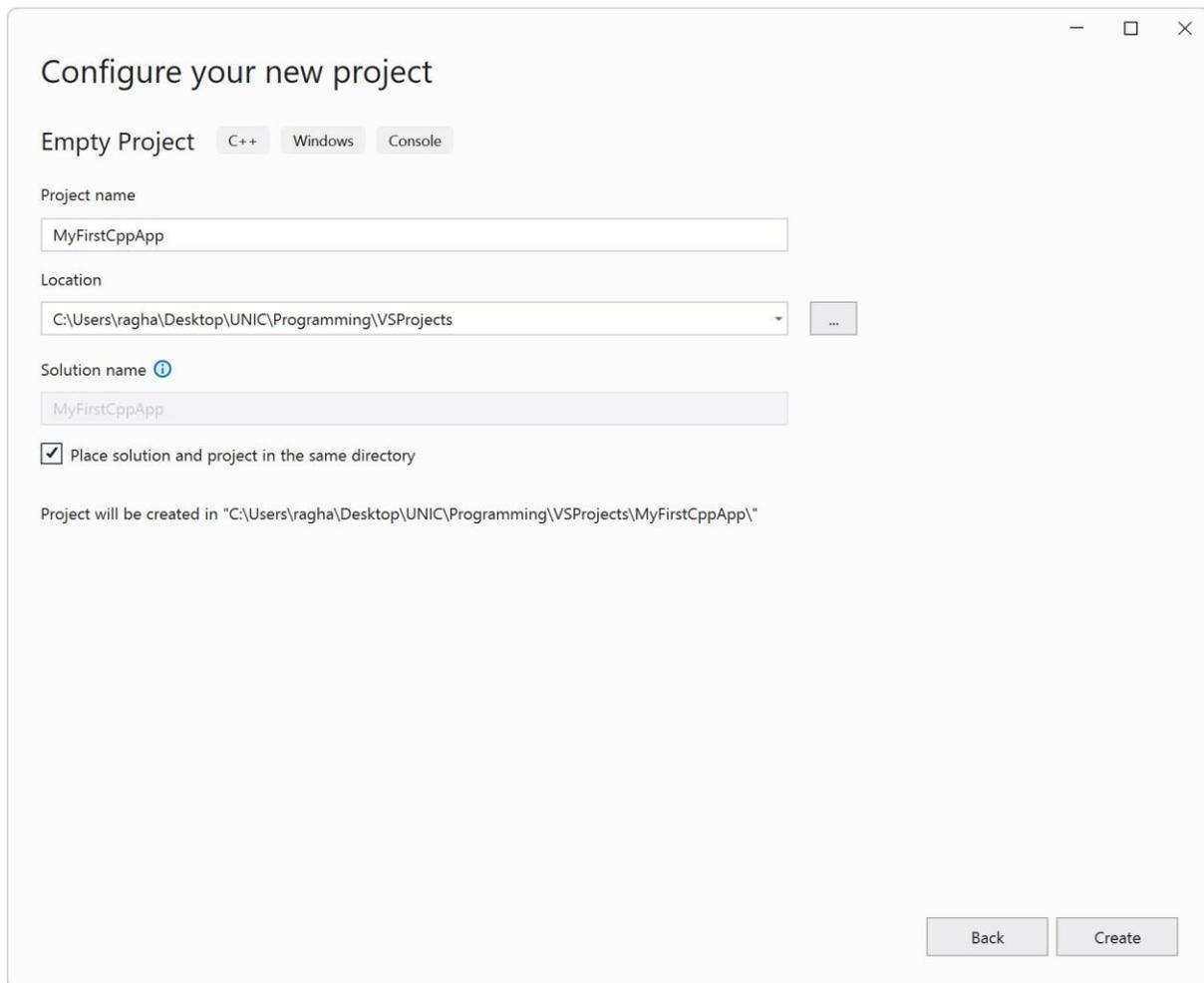


Step 5: Configure Your Project

1. In the "Configure your new project" window, you can specify some project details:

- **Project name:** Give your project a name, for example, "MyFirstCppApp."
- **Location:** Choose where you want to save your project files.
- **Solution name:** The solution name will be the container for your project; you can leave it as the default.

3. Click the "Create" button.

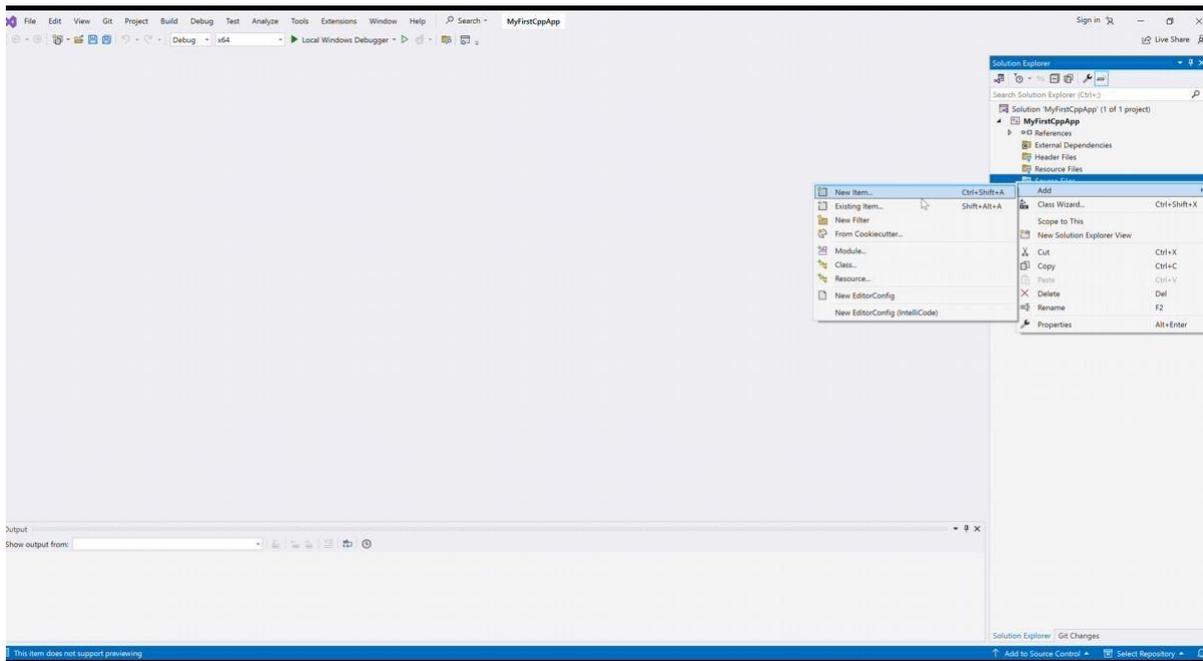


Step 6: Write Your C++ Code

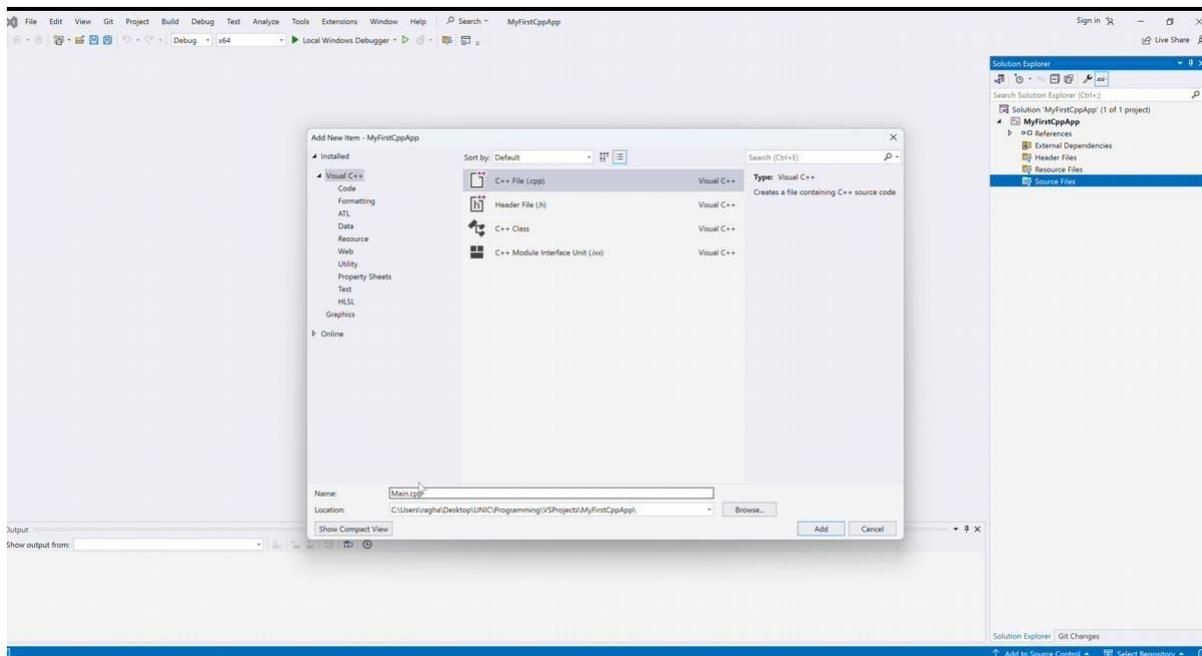
1. Visual Studio you will find the project you just created in the “**Solution Explorer**” window

- Visual Studio uses two key concepts to organise code and development work: **projects** and **solutions**.
- **Project:** A project in Visual Studio is a container for organising and managing all the files, resources, configurations, and settings required to build a specific software application or component. It typically contains source code files, resource files, and settings that define how the code should be compiled and executed. In the context of C++, a project would include all the code, libraries, and build configurations for a C++ application.
- **Solution:** A solution is a higher-level container that can hold one or more projects. Solutions are used to group related projects together, especially in scenarios where multiple projects are part of a single application or when you're working on multiple applications within a larger system.

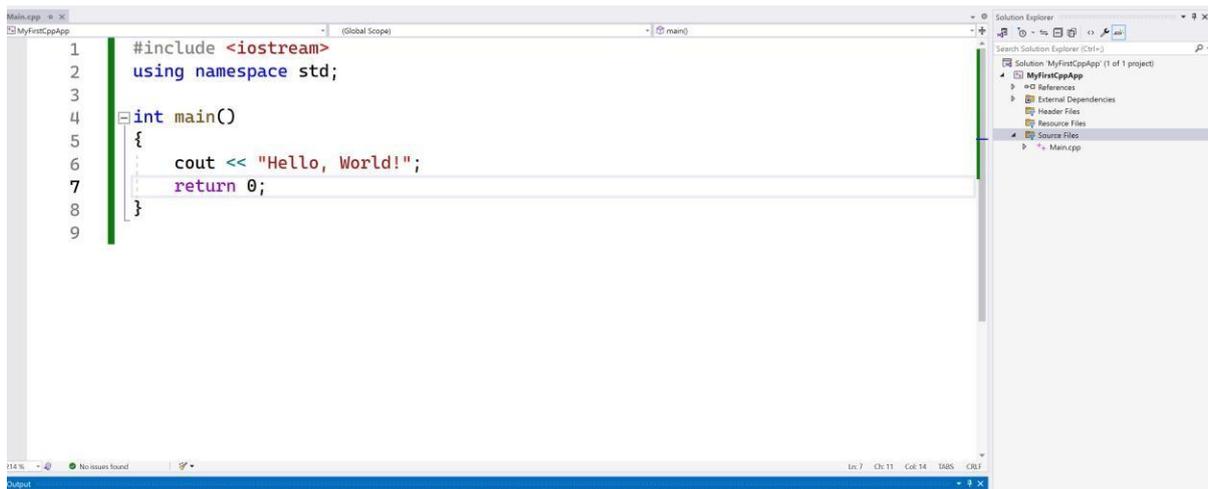
1. In the Solution Explorer (usually located on the right-hand side of the screen), right-click on the folder where you want to add the new source file. This is often the "**Source Files**" folder.
2. Select "Add" > "New Item..." from the context menu.



3. In the "Add New Item" dialog that appears, you can choose the type of file you want to add. For a C++ source code file, you can select "C++ File (.cpp)".
4. Give your new file a name, for example, "Main.cpp."
5. Click the "Add" button to create the file.



6. Write Your Code following the example below:



```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     cout << "Hello, World!";
7     return 0;
8 }
9
```

Step 7: Build and Run

1. After adding the new source code file and writing your code, you may need to build your project again to include the new file in the compilation process. You can do this by selecting **"Build" > "Build Solution."**
2. If there are no errors in your code, you can run your updated project to see the changes. Press the **"Local Windows Debugger"** button (green triangle) or press F5 to run your application.

Congratulations! You've successfully created a simple C++ application using Visual Studio 2022.