Visual Studio (VS) – (**Windows** only) Installation

1. Visit [Visual Studio 2022 Community Edition – Download Latest Free Version (microsoft.com)](https://visualstudio.microsoft.com/vs/community/) and click the Download button for the latest IDE (integrated Development Environment) installer program. Run the installer file in your download folder to install Visual Studio. Do an update if instructed. Snapshot of Installer follows.

Graphical user interface, text, application

Description automatically generated

Start your installer file and load the applications that you intend to use, such as

**Desktop development with C++** as shown below. For those of you who continue in Programming, you can always upgrade the IDE to accept more languages (such as Python, HTML, JAVA, etc.). Click the Install button to start your installation.

A screenshot of a computer

Description automatically generated

1. When prompted to Sign into Visual Studio, you can click on ‘Skip this for Now’. Press Start Visual Studio Now.
2. To create a new project, go to and click on link that states "Create a new project" at the start up splash screen as shown next.

Graphical user interface, application

Description automatically generated

1. Find the application with the desired language (image below). Type c++ in your search field then click on Empty Project to start up a C++ project. Press Next to continue.

A screenshot of a computer

Description automatically generated with medium confidence

1. The next image that follows shows the choices to configure the new project. Note that you choose a project name (ex. Project1), a location for the project, and then the name for the solution. You may use the default name, location and solution name if you so choose. Keep the default option to ‘Place solution and project in the same directory’ option. Finally, click on the button which is labeled CREATE. Snapshot follows.

Graphical user interface, application

Description automatically generated

6. You should now see something similar to the following window. Notice the two windows  
 located on the right side (Solution Explorer, and the Properties window). Feel free to   
 close the What’s New? window at this point.

A screenshot of a computer

Description automatically generated with medium confidence

To start a C++ source file, go to the top menu bar and choose **Project**, then **Add New Item…** from the menu.

From the ‘Add New Item – Project1’ window, click on the C++ File (.cpp) and then at the bottom text field name your source code file as hello.cpp for example. Finally, click on the button labeled ADD, which is located at the bottom right of the window. Your file should now be placed within the **Source Files** folder in your Solution Explorer.

7. The following image is the screen you will see where you can start adding your C++   
code!

Include the code that follows into your text editor.

A screenshot of a computer

Description automatically generated with medium confidence

1. Code has now been added to give the output "Hello World". Once you have entered your code into text editor you want to execute it. To execute your program, go to the top menu bar and choose Debug->Start Debugging (or you can execute via pressing the CTRL key with the F5 (function key) as this feature will start the program without debugging).

The console output will appear as shown in the next screen snapshot!

Text

Description automatically generated

1. To finish, close out of you Installer window. The next time you open up Visual Studio 2022 a good idea would be to pin the application to your task bar (it will appear as a purple infinity symbol).