

C++ TOOLS YOU WILL NEED

In order to write C++ programs, you will need a special software to allow you to translate the code you write in C++ into the language the machine understands.

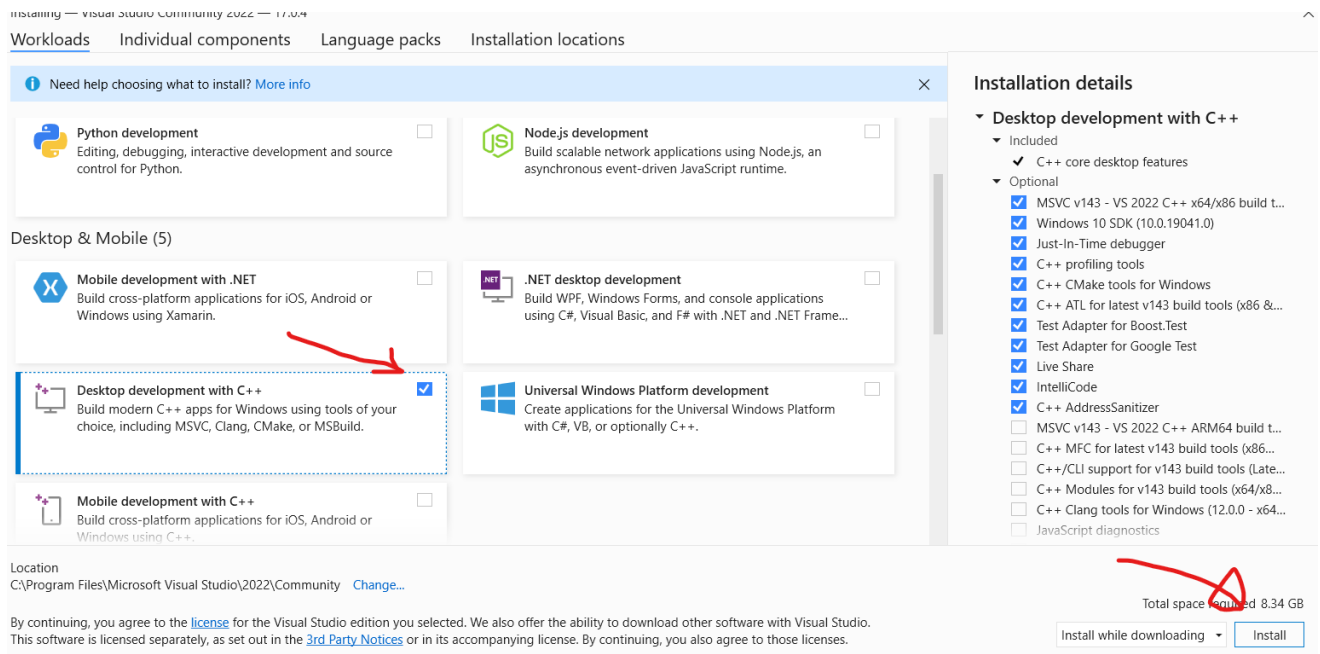
These programs are called compilers. We are lucky to have a choice of compilers for free. In this class we will use the free Microsoft Visual Studio Community 2022.

Please follow the instructions below:

- 1- Go to <https://visualstudio.microsoft.com/downloads/> and choose the Community option.
When the installation starts, you will be asked to choose the type of development you will be using, and the installer will download the relevant components.

You can choose (ie., check) the components you see in the picture below and click on the install button (lower right)

(continued below)

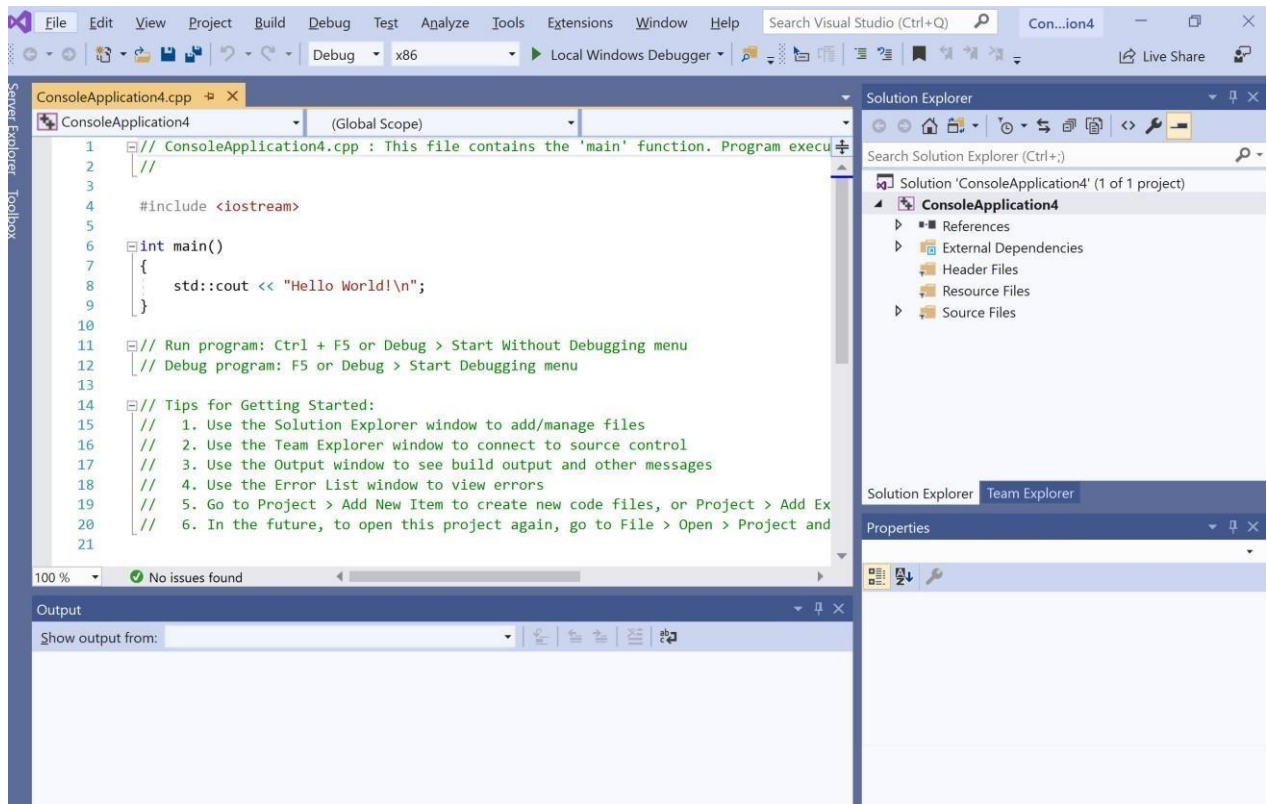


The program is called Visual Studio 2022. Launch it.

Click on “Create a new project” and then “Console App.” Then click Next (bottom of the page).

Give your project a name (like Project1, for instance) and check “Place solution and project in the same directory.”

Once you create the project, you will enter Visual Studio, and the window will look like this:



The code you see in the larger pane is the sample code created by Visual Studio. Erase it or modify it with your own code.

Now you have to compile your code (translate it into machine language) to be able to run it.

You can do that by choosing “Debug” from the main menu, and then “Start without Debugging.”

The Output pane will show the progress of the compilation/translation) and if there are no errors, it will open a new window with the output of the your program.

If there are errors, they will be identified in the Output pane, and you will have to go back to the code and correct (debud) them.