**C/C++ programming with Visual Studio Code**

Reference: <https://code.visualstudio.com/docs/cpp/config-mingw>

Step 1: Download and install Visual Studio Code or VSCode: <https://visualstudio.microsoft.com/downloads/>

Step 2: Install the C/C++ extension for VS Code. You can install the C/C++ extension by searching for 'c++' in the Extensions view.

<https://marketplace.visualstudio.com/items?itemName=ms-vscode.cpptools>

Step 3: You will install Mingw-w64 via the SourceForge website. Click [Mingw-w64](https://sourceforge.net/projects/mingw-w64/files/Toolchains%20targetting%20Win32/Personal%20Builds/mingw-builds/installer/mingw-w64-install.exe/download) to begin downloading the compressed archive file. Extract the tools from the compressed file to a folder that has no spaces in its path. In this tutorial, we assume it is installed under C:\mingw-w64.

Step 4: Add the path to your Mingw-w64 bin folder to the Windows PATH environment variable.

1. In the Windows search bar, type 'settings' to open your Windows Settings.
2. Search for **Edit environment variables for your account**.
3. Choose the Path variable and then select **Edit**.
4. Select **New** and add the Mingw-w64 path to the system path. The exact path depends on which version of Mingw-w64 you have installed and where you installed it. Here is an example: c:\mingw-w64\x86\_64-8.1.0-win32-seh-rt\_v6-rev0\mingw64\bin.
5. Select **OK** to save the Path update. You will need to reopen any console windows for the new PATH location to be available.

Step 5: Check your MinGW installation

To check that your Mingw-w64 tools are correctly installed and available, open a new Command Prompt and type:

g++ --version

gdb --version

If you don't see the expected output or g++ or gdb is not a recognized command, check your installation (Windows **Control Panel** > **Programs**) and make sure your PATH entry matches the Mingw-w64 location.

Step 5: Please refer to the following tutorial to write Hello World. <https://code.visualstudio.com/docs/cpp/config-mingw>