# Installing C++ for VSCode:

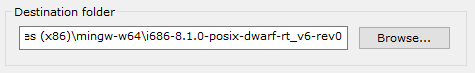
More info: <https://code.visualstudio.com/docs/cpp/config-mingw>

Steps:

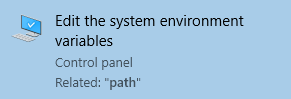
1. Download the C++ VSCode extension



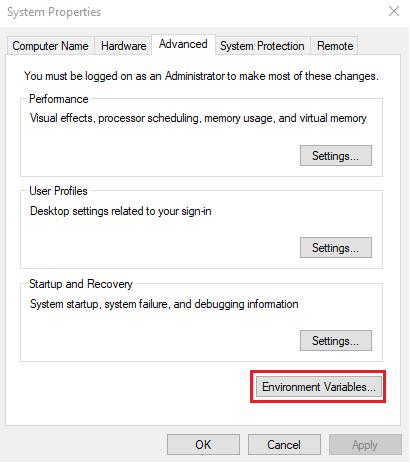
1. Install MinGW:
   1. <https://sourceforge.net/projects/mingw-w64/files/Toolchains%20targetting%20Win32/Personal%20Builds/mingw-builds/installer/mingw-w64-install.exe/download>
   2. Take note of your installation path (needs to be added to path)



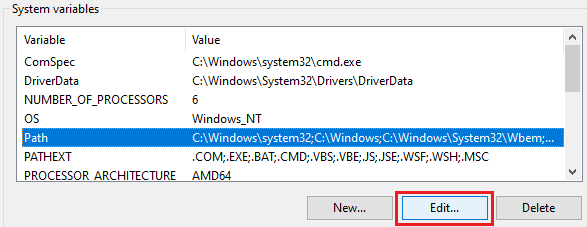
1. Add the “bin” directory of your MinGW installation to path
   1. Search path in windows



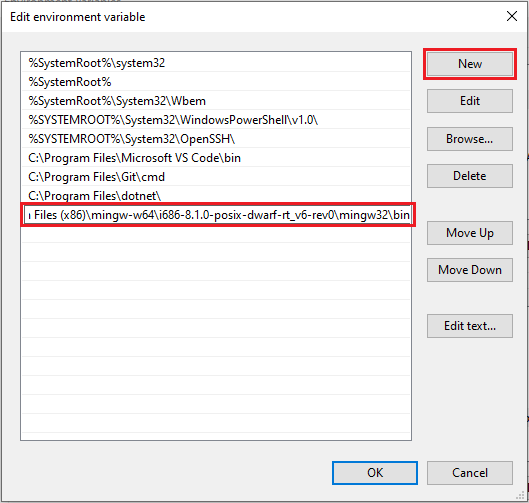
* 1. In the “Advanced” tab, click the “Environment Variables” button



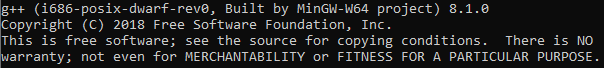
* 1. Under “System variables” edit “Path”



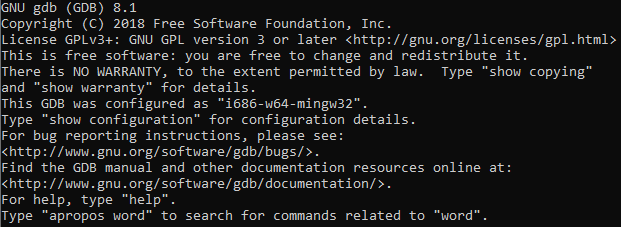
* 1. Add the “bin” folder of your MinGW installation to path and click OK



1. Check your MigGW installation
   1. Run g++ --version in command prompt



* 1. Run gdb --version in command prompt



1. If already open, restart VSCode. Open a folder in VSCode and make a HelloWorld.cpp script using the following:

(A copy of this script can be found in the “more info” link at the top)

#include <iostream>

#include <vector>

#include <string>

using namespace std;

int main()

{

vector<string> msg {"Hello", "C++", "World", "from", "VS Code", "and the C++ extension!"};

for (const string& word : msg)

{

cout << word << " ";

}

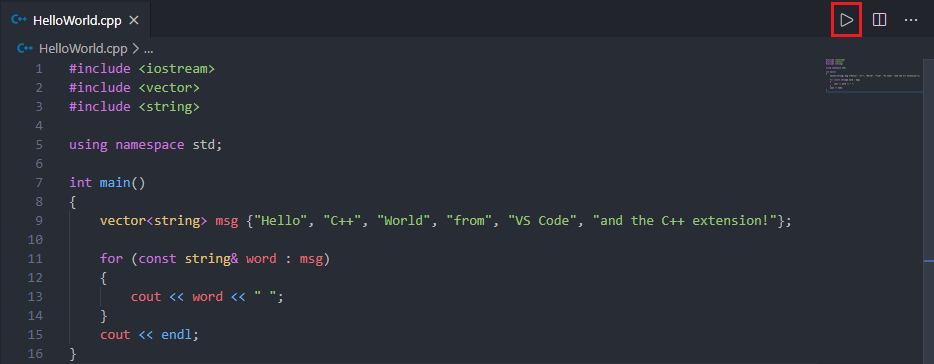
cout << endl;

}

1. Download the Code Runner extension



1. Click the Code Runner run button



1. Celebrate the fact that Code Runner has optimized the tedious C++ code compilation and running process

