Install & Config C++ VSCode

Install/Config C++ Compiler in Mac

Install C++ compiler using MinGW compiler

- Open Terminal window copy the code provided below. This will install **Homebrew** in your Mac system.
  - **Intel CPU:** /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
  - **M1 Chip:** arch -x86_64 ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install)" **<** /dev/**null**
- Install the MinGw compiler with below-provided code
  - **Intel CPU:** brew install MinGW-w64
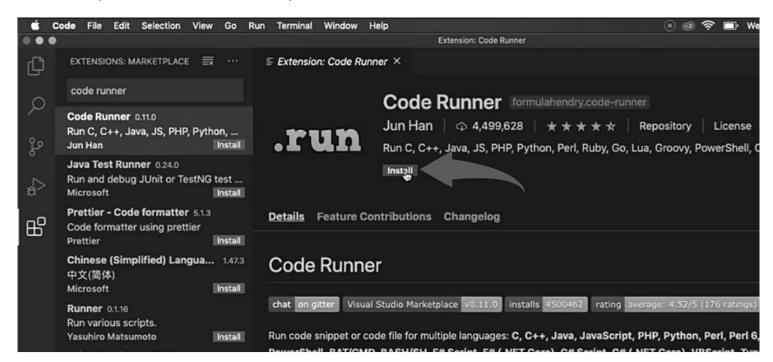 - **M1 Chip:** arch -x86_64 brew install MinGW-w64

Install/Config C++ Compiler in Windows

Install C++ compiler using MinGW compiler. Download from github

- Install MSYS2 and run command to update its package
  - Update package: pacman -Su
  - Run msys2 mingw64
    - pacman -Ss gcc
    - => search for mingw64/mingw-w64-x86_64-gcc
    - pacman -S mingw64/mingw-w64-x86_64-gcc
    - => test gcc --version; g++ --version
  - install debuger
    - pacman -Ss gdb
    - => search for mingw64/mingw-w64-x86_64-gdb
    - => test gdb --version
- Configure environment

  > Environment Variables > System Variables > Path > Edit path > New "C:\msys64\mingw64\bin"

Install/Config VSCode

- Download vscode: https://code.visualstudio.com/download

- Configure Visual Studio Code

  - Open Visual Studio Code

  - Click on the **Extension** button and in the search bar type *code runner*, and **C/C++** , and click on the install button.

First Program

```cpp
1    #include <iostream>
2
3    using namespace std;
4
5    int main (){
6        cout << "Hello World!\n";
7        cout << "Welcome to C++ Programming";
8        return 0;
9    }
```

```
PS C:\Users\User\Documents\CC++\CP1> cd "c:\Users\Us> cd "c:\Users\User\Documents\CC++\CP1
\" ; if ($?) { g++ firstprogram.cpp -o firstprogram } ; if ($?) { .\firstprogram }
Hello World!
Welcome to C++ Programming
```