VS code setup steps

Installing package manager

- https://chocolatey.org/
- Recommend to install from PowerShell.exe
 - Check command Get-ExecutionPolicy
 - Set-ExecutionPolicy AllSigned
 - Run following command:

Set-ExecutionPolicy Bypass -Scope Process -Force; iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))

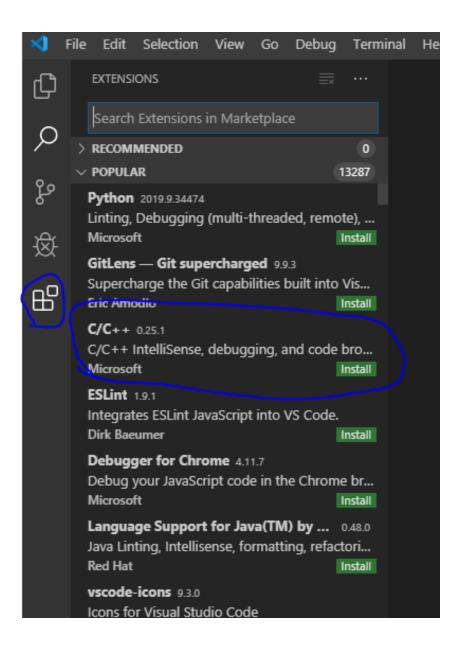
Preparations

- Install compiler
 - choco install mingw -y
- Install VisualStudio Code
 - choco install vscode -y

The install of mingw was successful. | Software installed to 'C:\ProgramData\chocolatey\lib\mingw\tools\install'

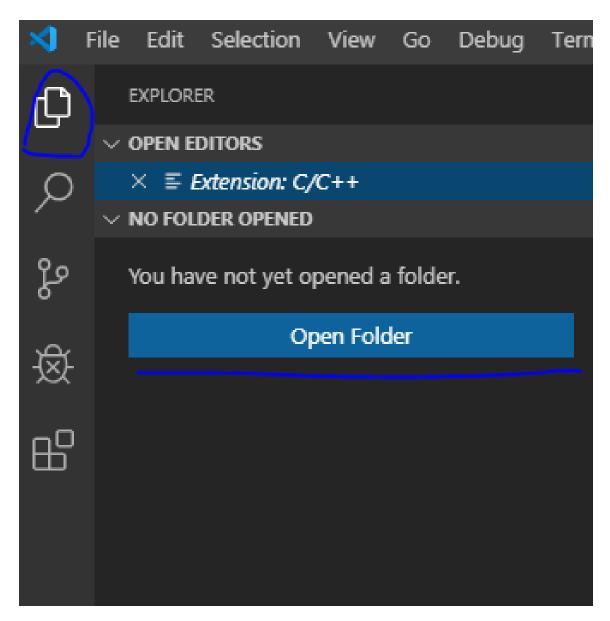
Install VS Code extension

 We are interesting for C/C++, but you are can install also Python/C#/etc.



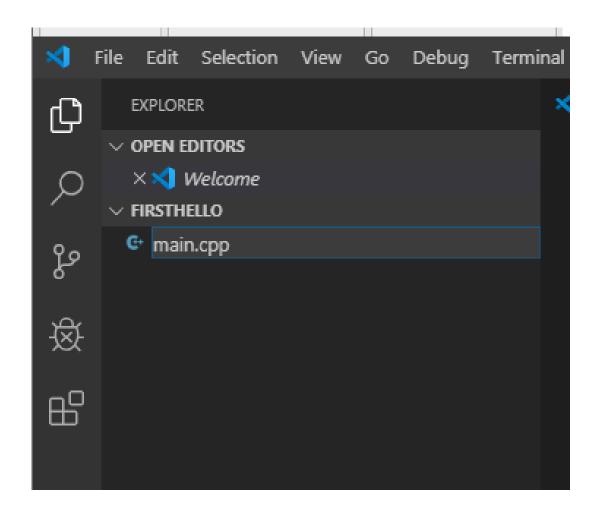
Create first env

Click "Explorer" and chose folder



Create first env

- Click "Explorer" and chose folder
- Click on add file and type "main.cpp"



Write "dummy" code in the editor

```
#include <iostream>
using namespace std;
int main()
  cout<<"Hello from C++";</pre>
  return 0;
```

Click Ctrl-Shift-B



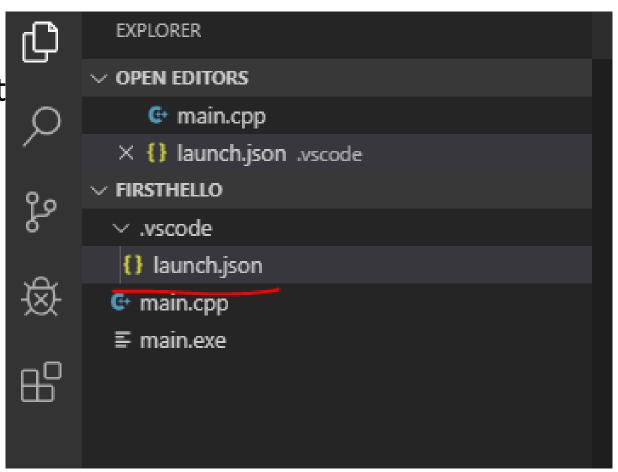
Running dummy executable

```
        ← main.cpp ×

EXPLORER
                                           G main.cpp > ...
OPEN EDITORS
                                                 #include <iostream>
× 🖙 main.cpp
                                                 using namespace std;
FIRSTHELLO
@ main.cpp
                                                 int main()
cout<<"Hello from C++";</pre>
                                                      return 0;
                                           PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                           PS C:\Users\Alexander\Documents\FirstHello> .\main.exe
                                           Hello from C++
                                           PS C:\Users\Alexander\Documents\FirstHello>
```

Debugging (press F5)

- launch.json will be created
- Ensure that miDebuggerPath set properly
- Press F5 again



task.json will be created

```
DEBUG ▷ g++.exe build and d ▼ ۞
                                                                               {} launch.json
                                               >
                                                               {} tasks.json
                                               € main.cpp > ...

∨ VARIABLES

                                                      #include <iostream>
                                                      using namespace std;
                                                      int main()
                                                          cout<<"Hello from C++";</pre>
嵏
                                                          return 0;
                                                 8
```

Sample tasks.json

```
"version": "2.0.0",
  "tasks": [
      "type": "shell",
      "label": "g++.exe build active file",
      "command": "C:\\ProgramData\\chocolatey\\bin\\g++.exe",
      "args": [
         "-g",
         "${file}",
         "-o",
         "$\{file Dirname\} \setminus $\{file Basename No Extension\}. exe"
      "options": {
         "cwd": "C:\\ProgramData\\chocolatey\\bin"
      },
      "problemMatcher": [
         "$gcc"
```

Sample launch.json

```
"version": "0.2.0",
  "configurations": [
      "name": "g++.exe build and debug active file",
      "type": "cppdbg",
      "request": "launch",
      "program": "${fileDirname}\\${fileBasenameNoExtension}.exe",
      "args": [],
      "stopAtEntry": false,
      "cwd": "${workspaceFolder}",
      "environment": [],
      "externalConsole": false,
      "MIMode": "gdb",
      "miDebuggerPath": "C:\\ProgramData\\chocolatey\\bin\\gdb.exe",
      "setupCommands": [
           "description": "Enable pretty-printing for gdb",
           "text": "-enable-pretty-printing",
           "ignoreFailures": true
      "preLaunchTask": "g++.exe build active file"
```

Alternatives

- Use Visual Studio Community
- xCode
- etc.