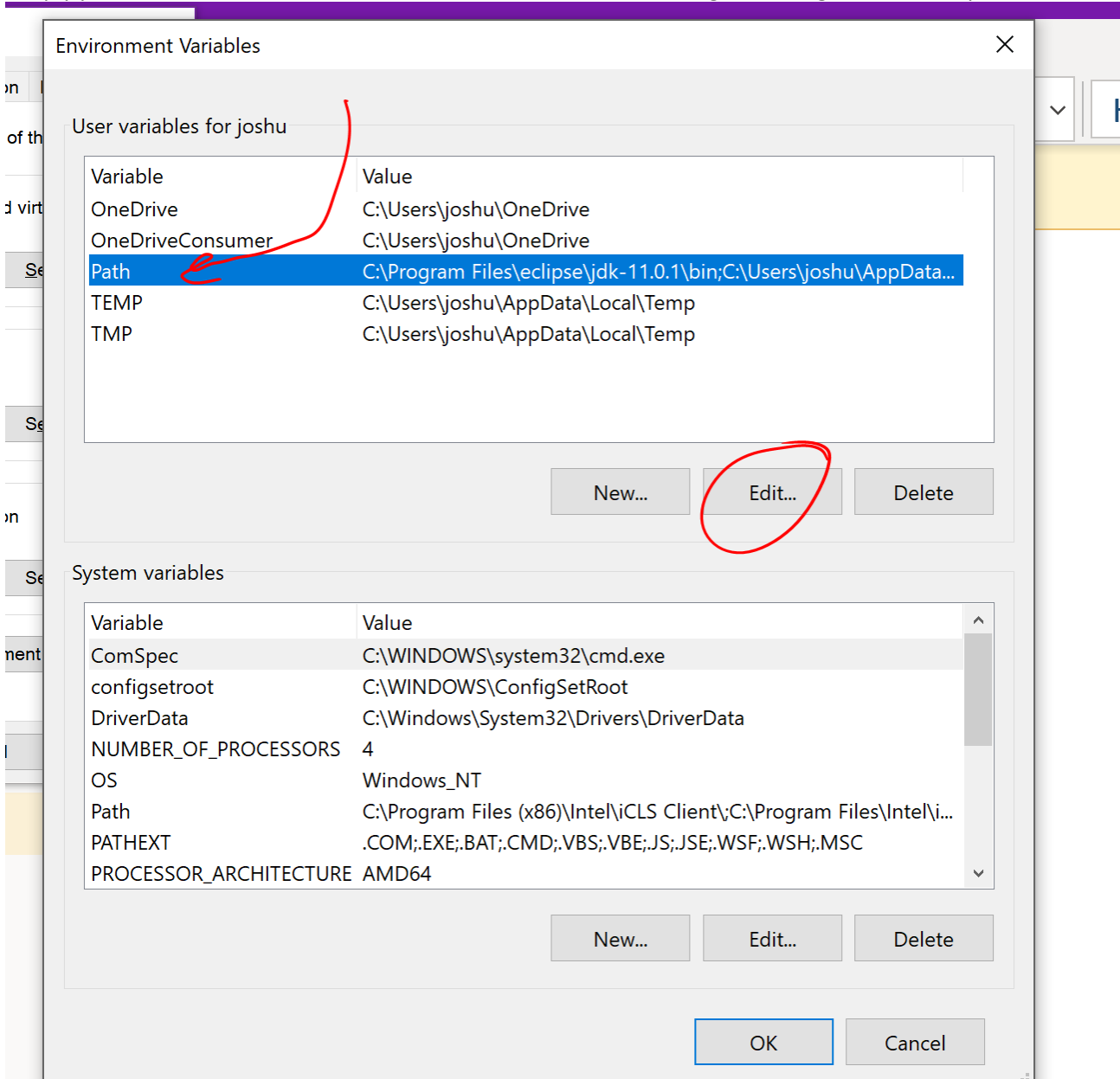
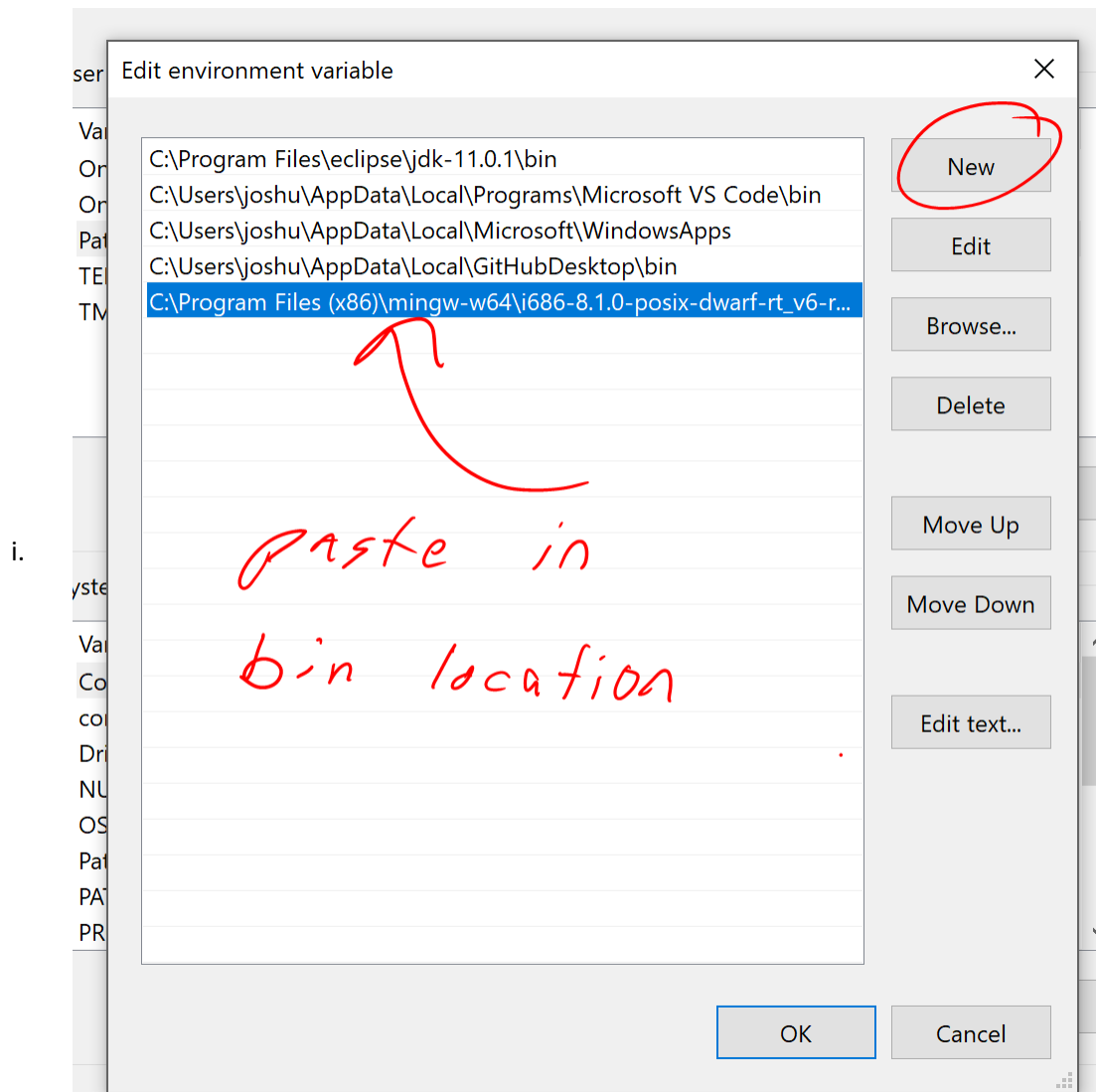
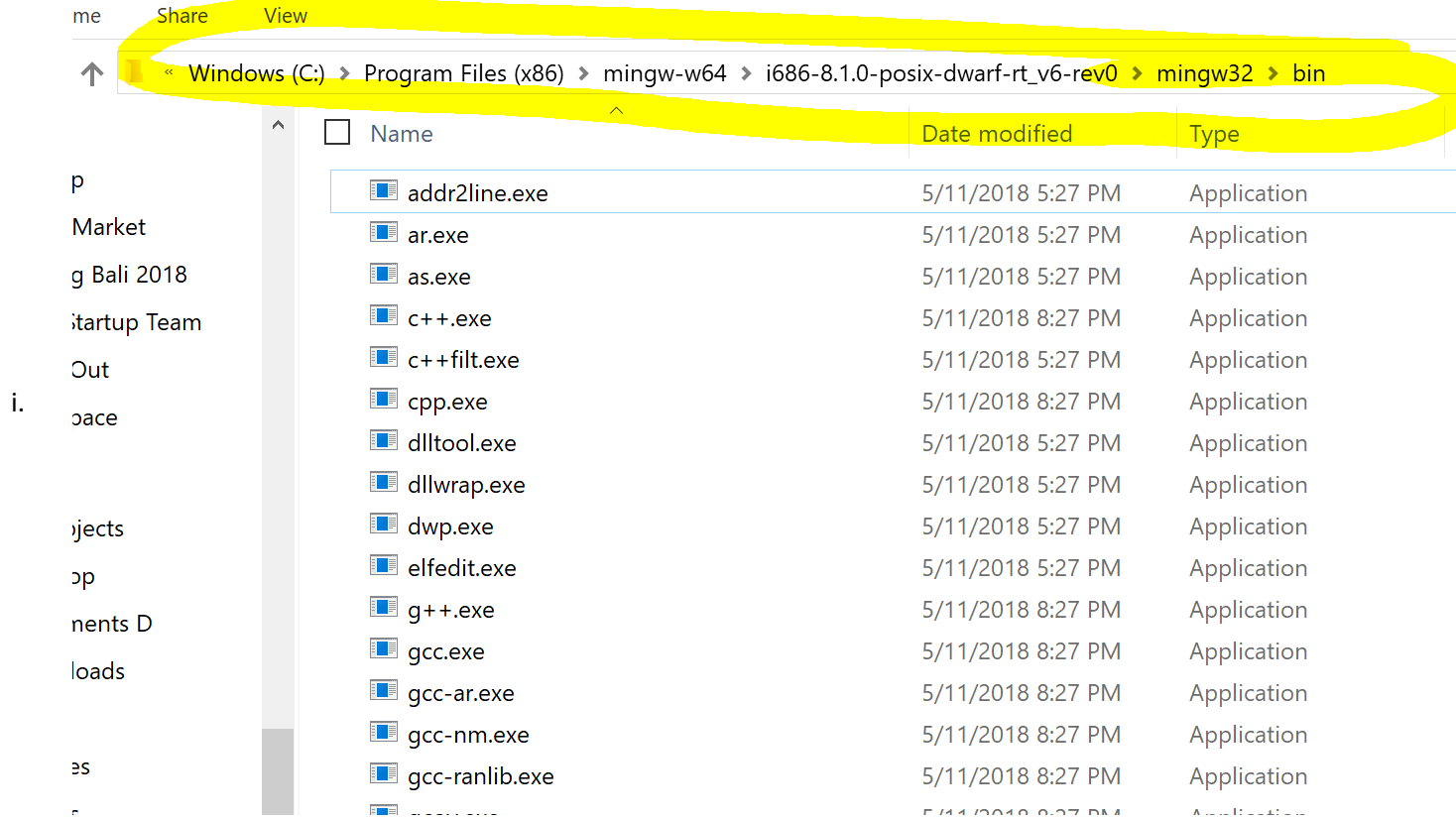


Set Up C++ With Visual Studio Code (VS Code) on Windows 10 mingw-w64 (Easiest)

1. Download and install mingw-w64:
 1. Search for mingw-w64. I recommend installing from this link because it comes with a installation .ex:e <https://sourceforge.net/projects/mingw-w64/>
2. Update Environment Variables: add a new path environment variable to the newly installed mingw bin folder.
 1. Simply perform a Windows search for environment variables or navigate through the control panel.



3. Paste in bin location C:\Program Files (x86)\mingw-w64\i686-8.1.0-posix-dwarf-rt_v6-rev0\mingw32\bin



3. Check that mingw and environment variable update successful using command window: Cmd check

a.

```
Command Prompt
Microsoft Windows [Version 10.0.17134.765]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\joshu>g++
g++: fatal error: no input files
compilation terminated.

C:\Users\joshu>
```

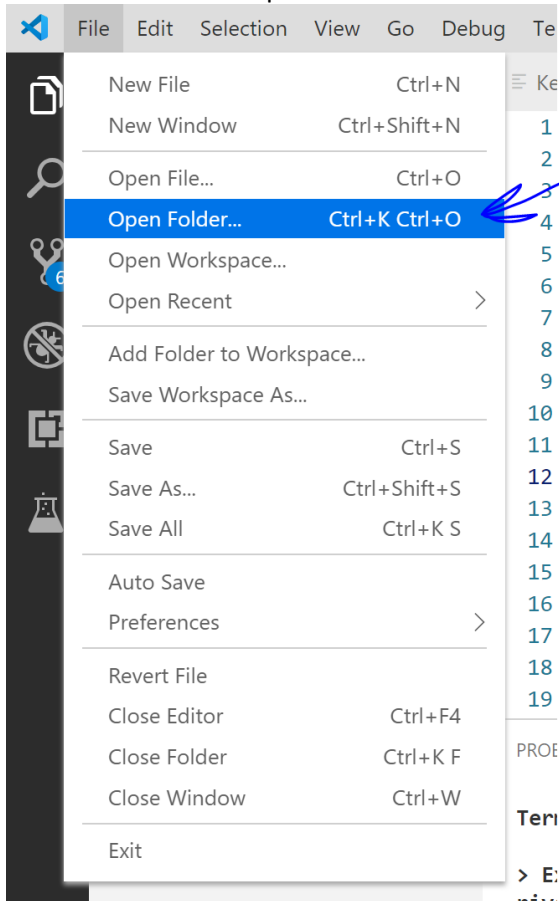
Type g++

Good at this step

4. Create folder where all programs to be

a. Open VS Code and file -> import folder to that folder

i.

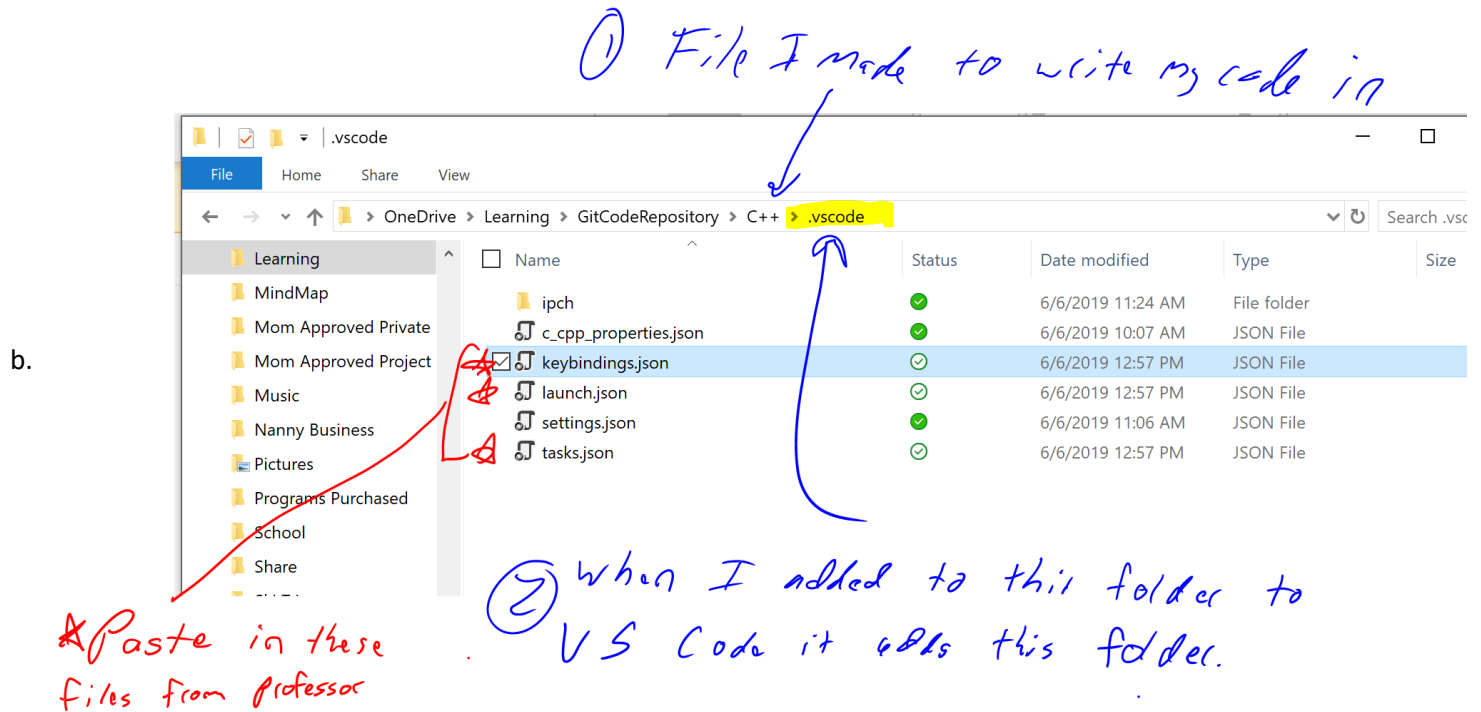
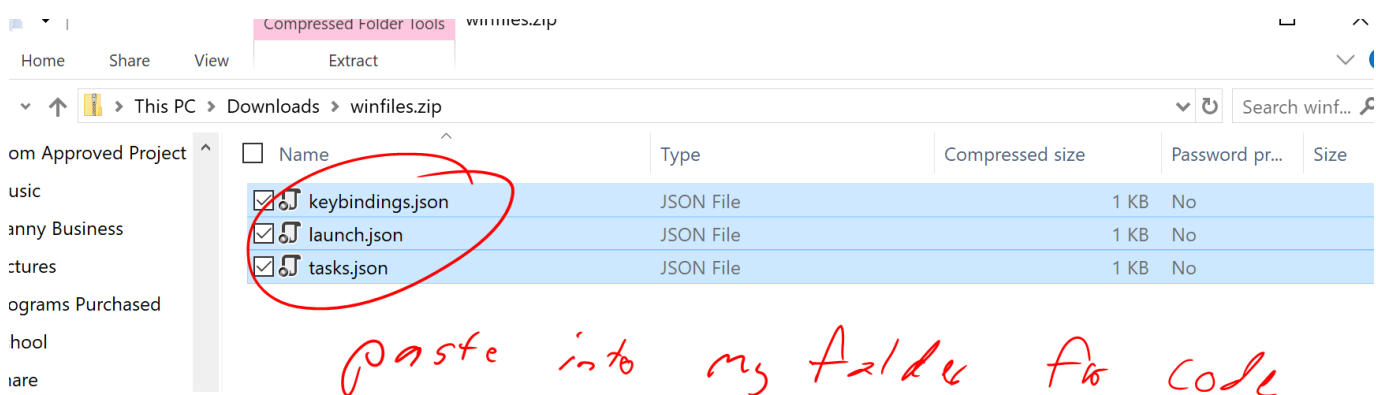


add your folder where you will write all your code

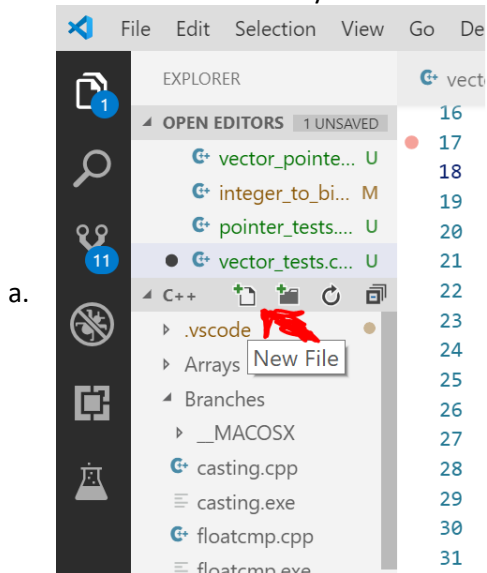
5. This creates the .vscode file

a. Paste in the .json files

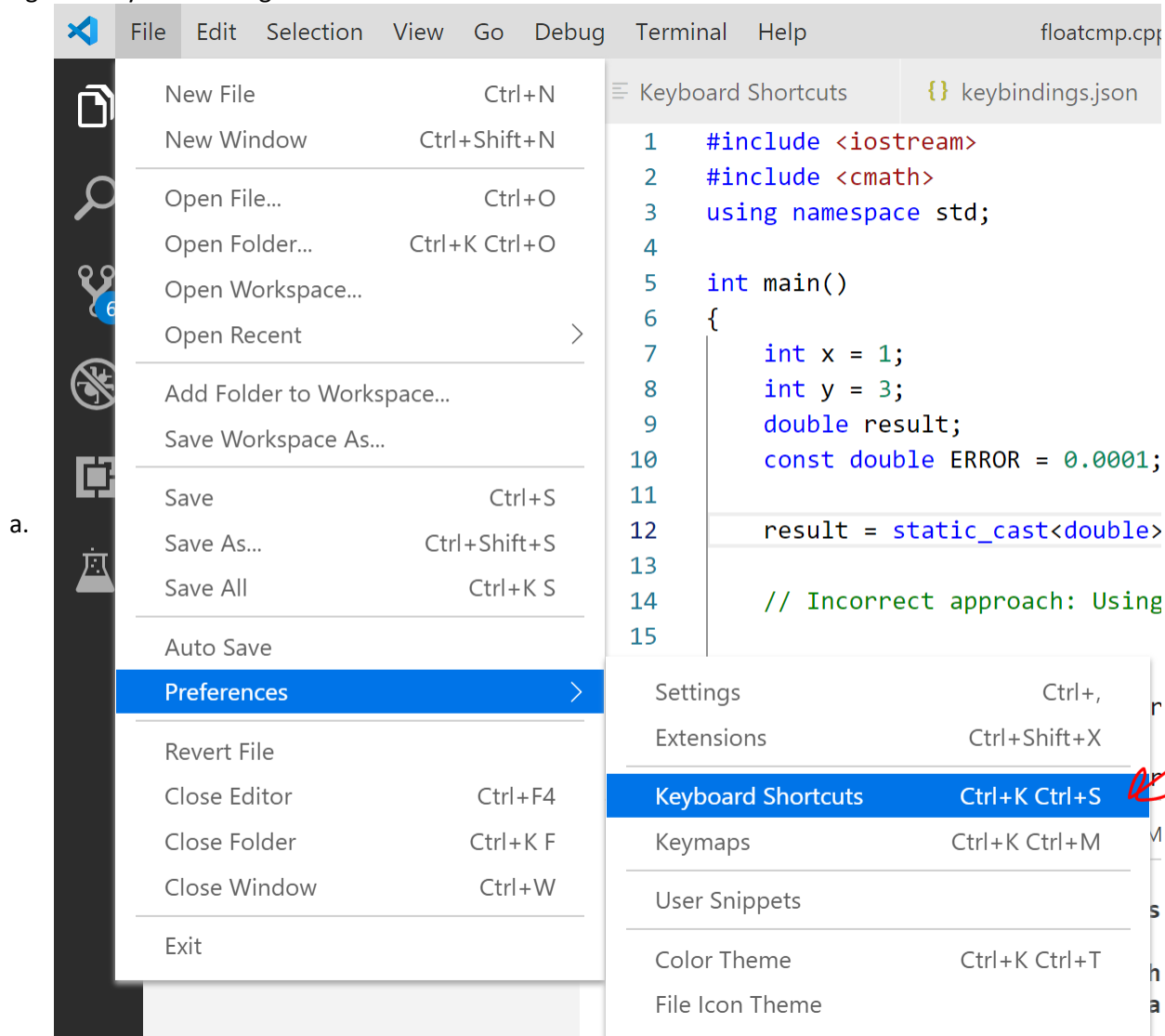
i. <<winfiles.zip>>



- c. One additional step may be required if you do not see your .vscode folder at 11:50. At 11:50 after you import your desired folder into VS code, if a .vscode folder is not automatically created you need to create a .cpp file from VS code and save it to your working folder. The following are the steps. Within VS code on the left side file Explorer where you just imported your desired working folder click new file and name it main.cpp. Save the file (press Ctrl S) and this will create the .vscode folder you need to complete the instructions.

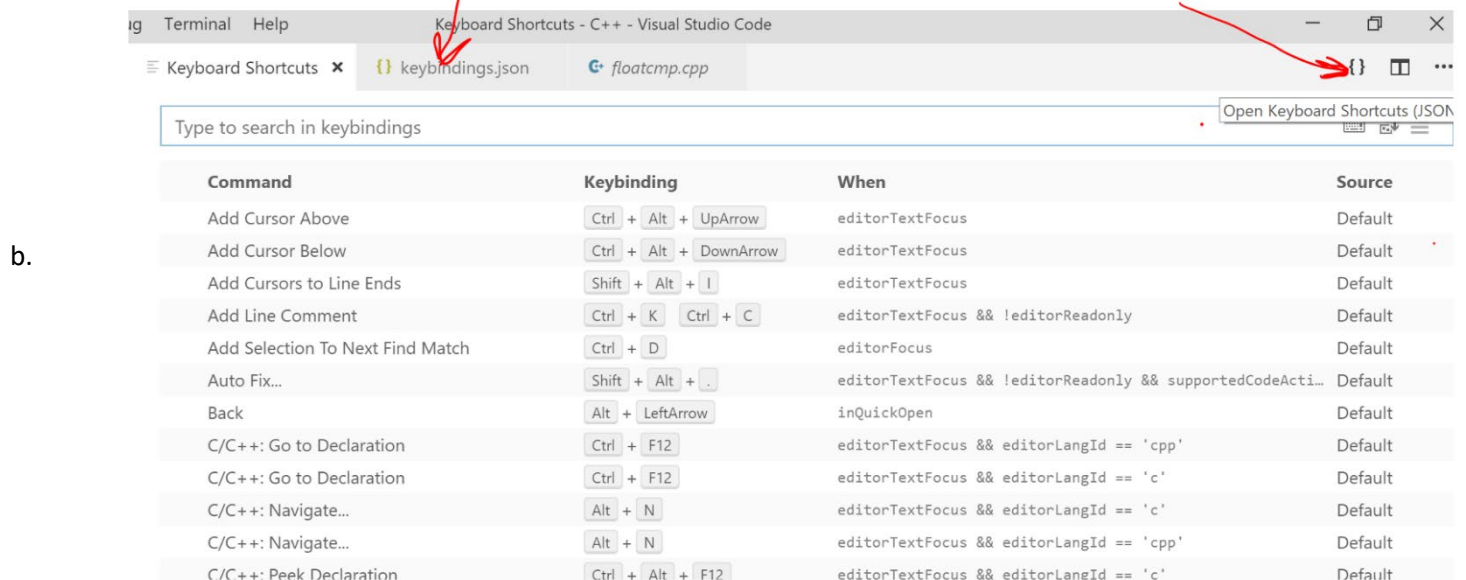


6. Add Keyboard shortcuts so Ctrl R compiles and runs the current program you have open and Ctrl Shift R compiles and runs all programs in your working folder.

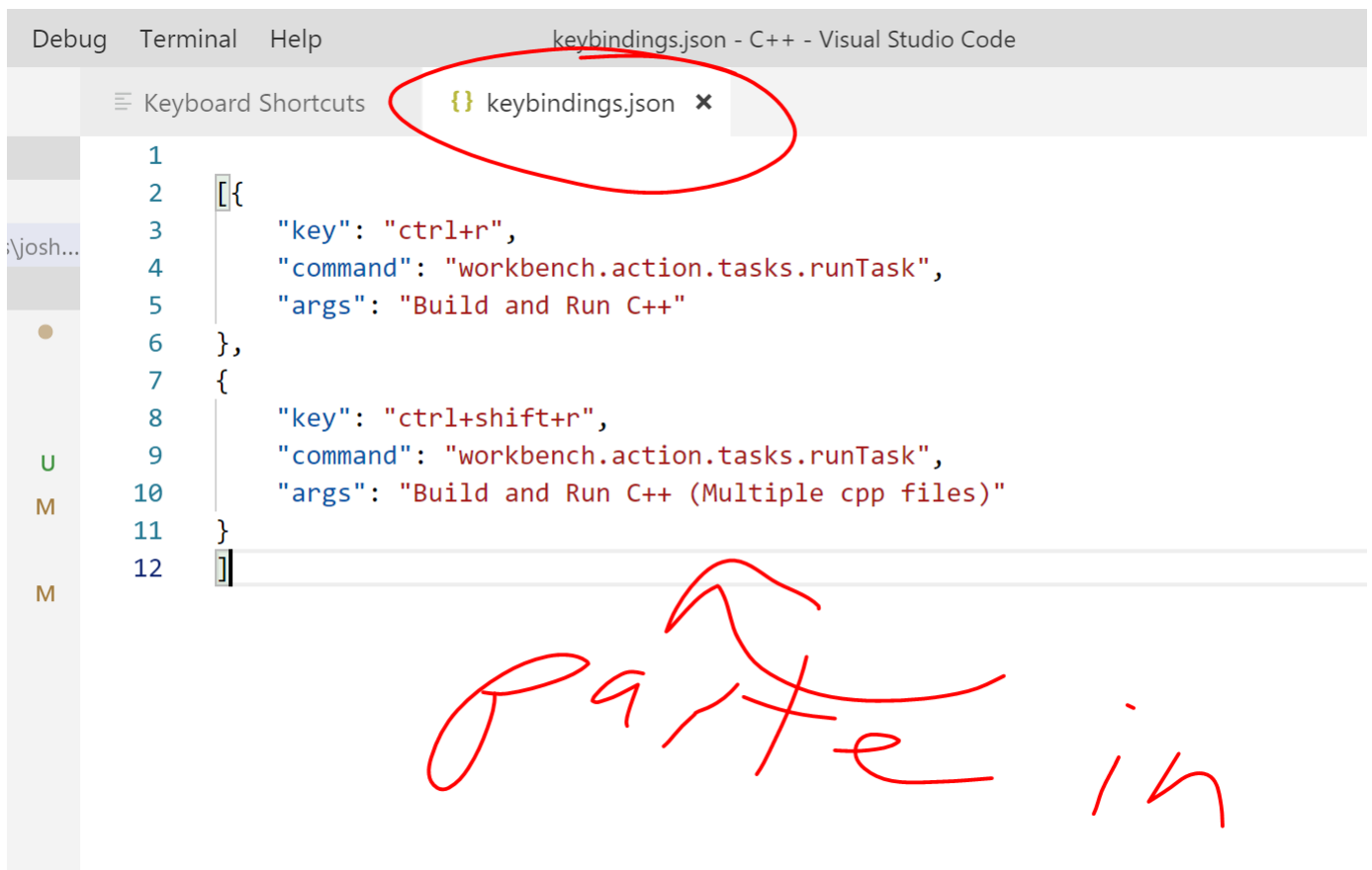


② This opens

① Click

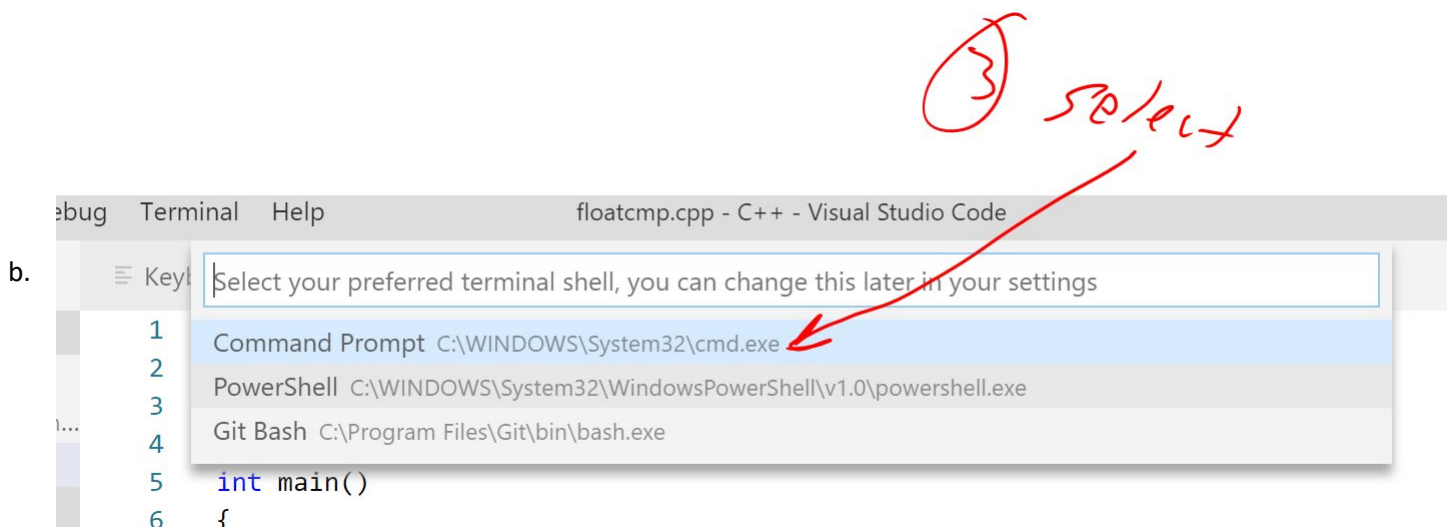
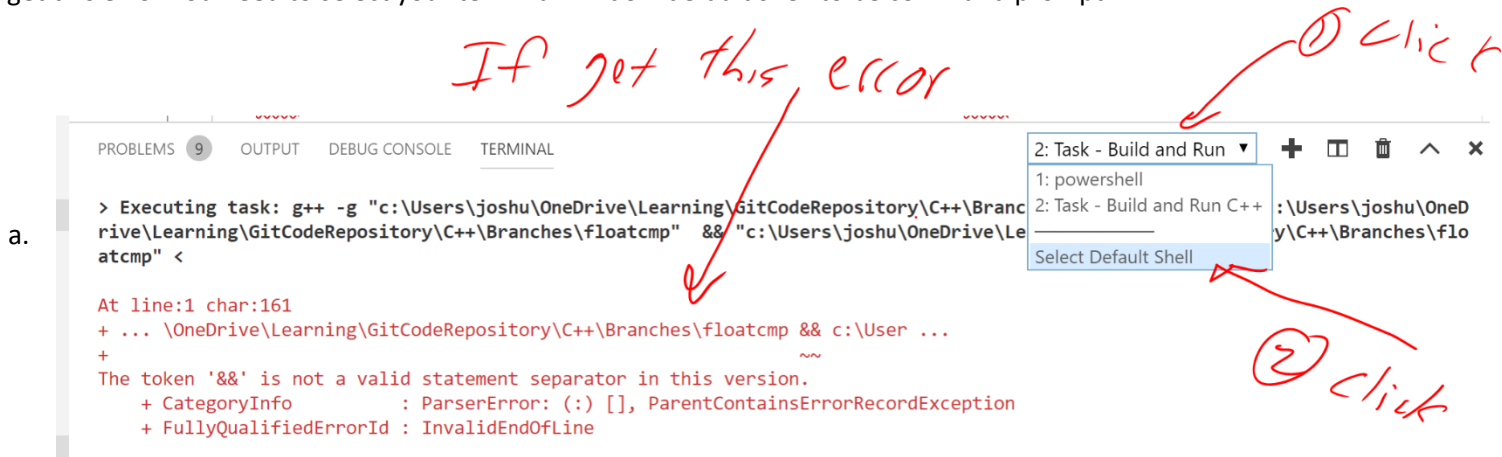


- c. Paste in contents from keybindings.json (open with notepad)



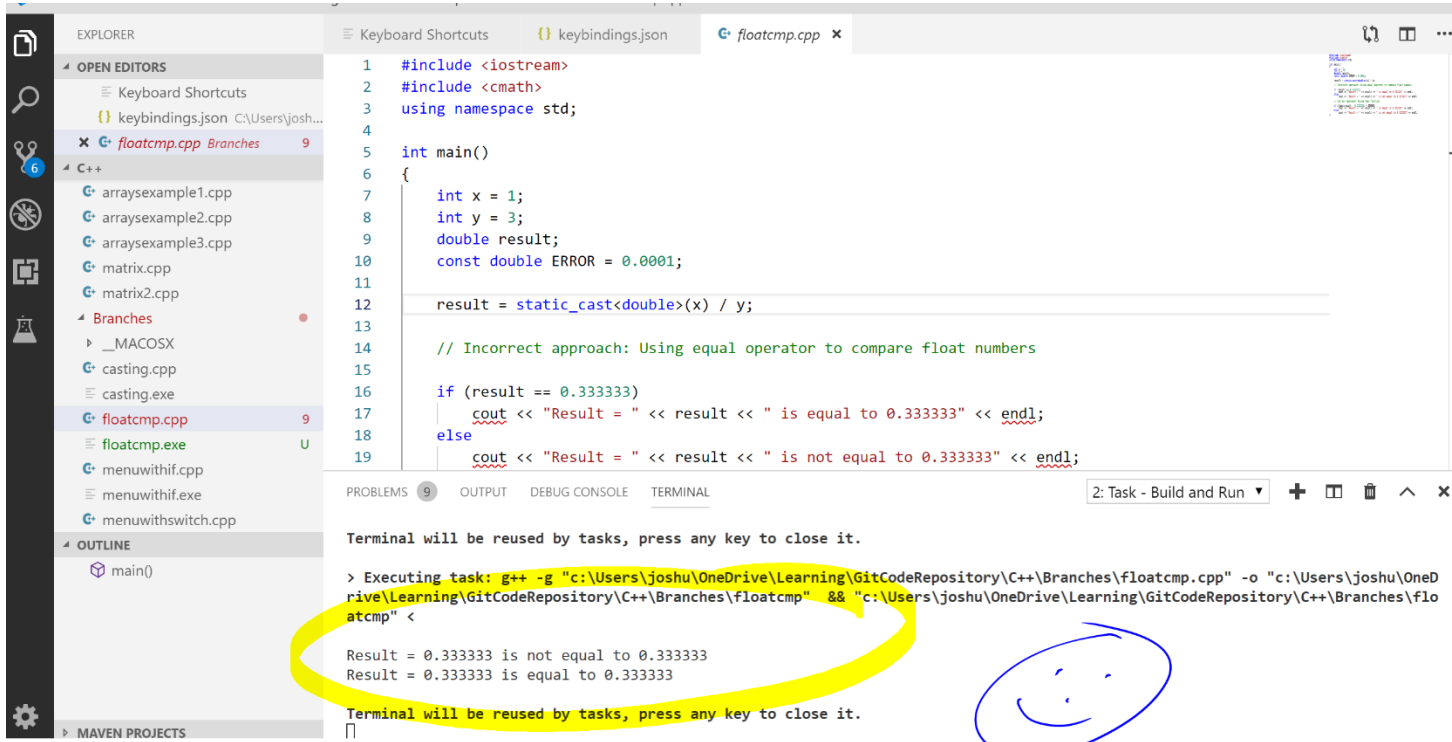
7. Hit ctrl r to run

8. If get this error You need to select your terminal window default shell to be command prompt



9. Hit ctrl r to run

a. It Works!!!



The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left shows a project with several C++ files, including `floatcmp.cpp` which is highlighted. The main editor displays the code for `floatcmp.cpp`. The code includes `<iostream>` and `<cmath>`, uses the `std` namespace, and defines a `main` function. It calculates `result = static_cast<double>(x) / y;` and then compares it to `0.333333` using `if (result == 0.333333)`. The output shows that the result is not equal to 0.333333. The terminal at the bottom shows the command to run the program and the output: `Result = 0.333333 is not equal to 0.333333` and `Result = 0.333333 is equal to 0.333333`. A yellow circle highlights the terminal output, and a blue smiley face is drawn next to it.

```
1 #include <iostream>
2 #include <cmath>
3 using namespace std;
4
5 int main()
6 {
7     int x = 1;
8     int y = 3;
9     double result;
10    const double ERROR = 0.0001;
11
12    result = static_cast<double>(x) / y;
13
14    // Incorrect approach: Using equal operator to compare float numbers
15
16    if (result == 0.333333)
17        cout << "Result = " << result << " is equal to 0.333333" << endl;
18    else
19        cout << "Result = " << result << " is not equal to 0.333333" << endl;
```

Terminal will be reused by tasks, press any key to close it.

> Executing task: g++ -g "c:\Users\joshu\OneDrive\Learning\GitCodeRepository\C++\Branches\floatcmp.cpp" -o "c:\Users\joshu\OneDrive\Learning\GitCodeRepository\C++\Branches\floatcmp" && "c:\Users\joshu\OneDrive\Learning\GitCodeRepository\C++\Branches\floatcmp" <

Result = 0.333333 is not equal to 0.333333
Result = 0.333333 is equal to 0.333333

Terminal will be reused by tasks, press any key to close it.

10. Ctrl shft r compiles all .cpp in folder