## Writing C++ on Your PC (Laptop)

- The essential components: a compiler and an editor
- Windows: g++ and visual studio code

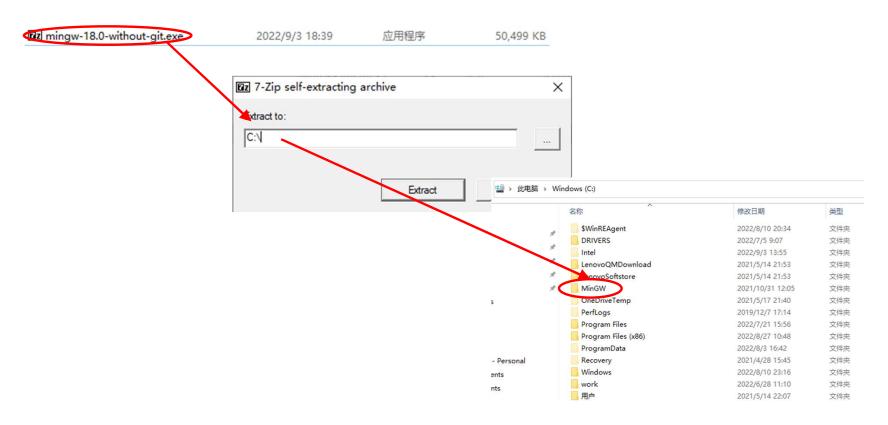
\* With jpegtran.

Download MinGW: http://bit.ly/mingw10

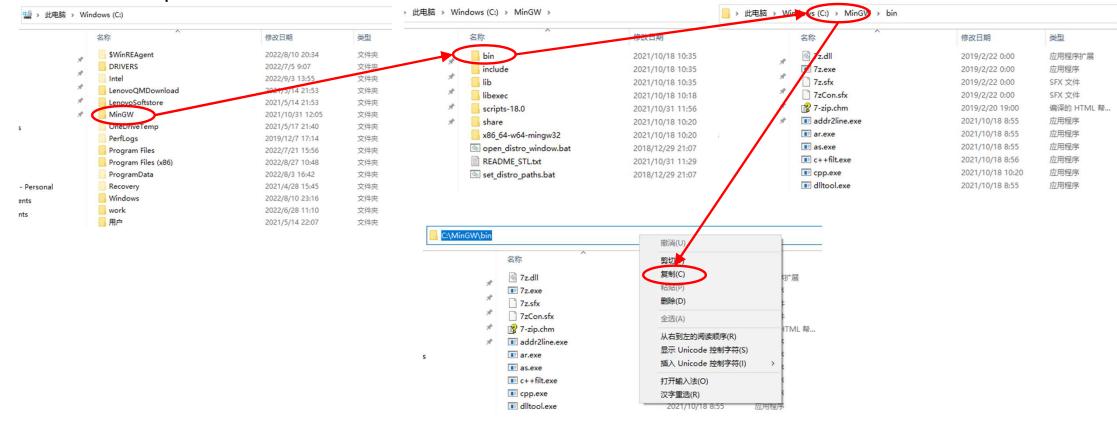


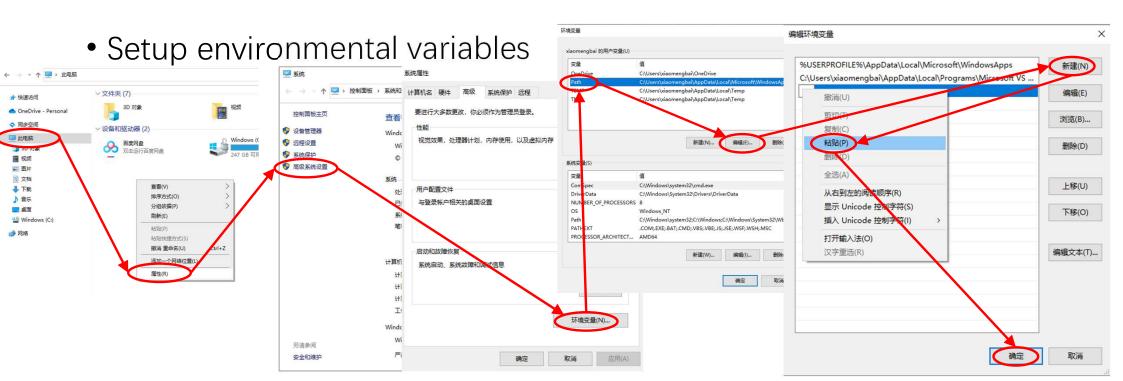
50,499 KB

Install MinGW

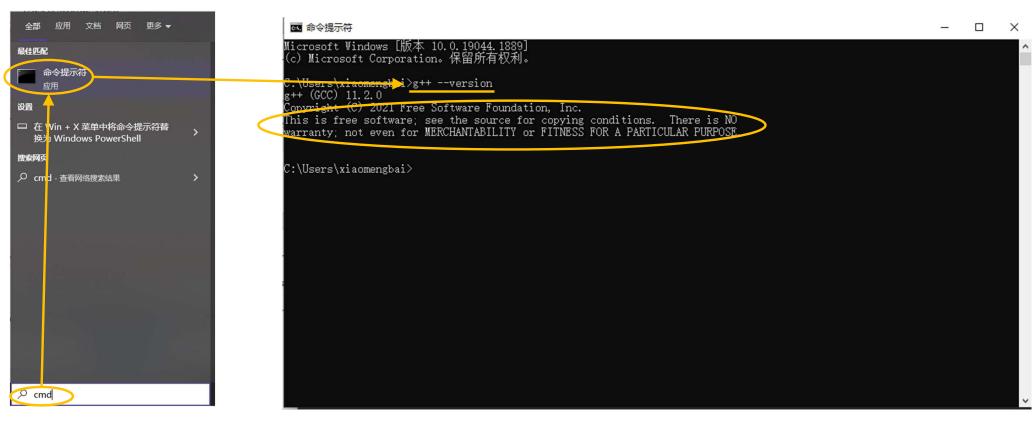


Setup environmental variables



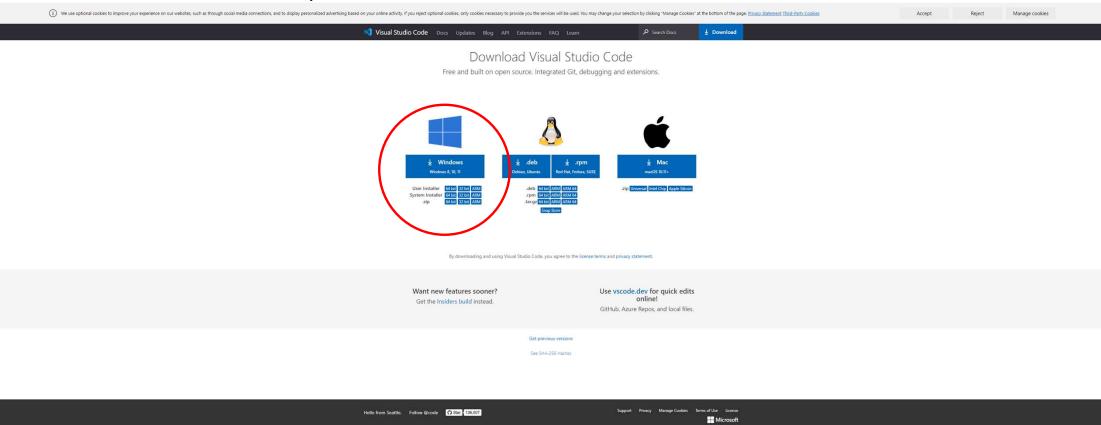


Check if successful install



#### Installing Visual Studio Code

download: https://code.visualstudio.com/download



# Installing VS Code

• Install VS Code



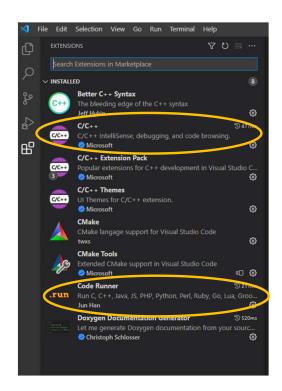
• Open VS Code



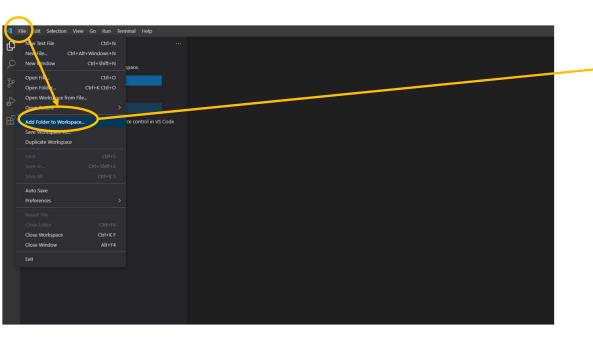
## Installing VS Code

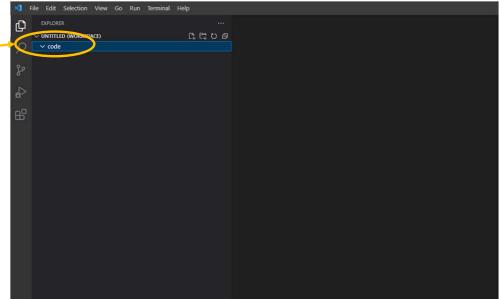
Install Extensions: C/C++ and Code Runner



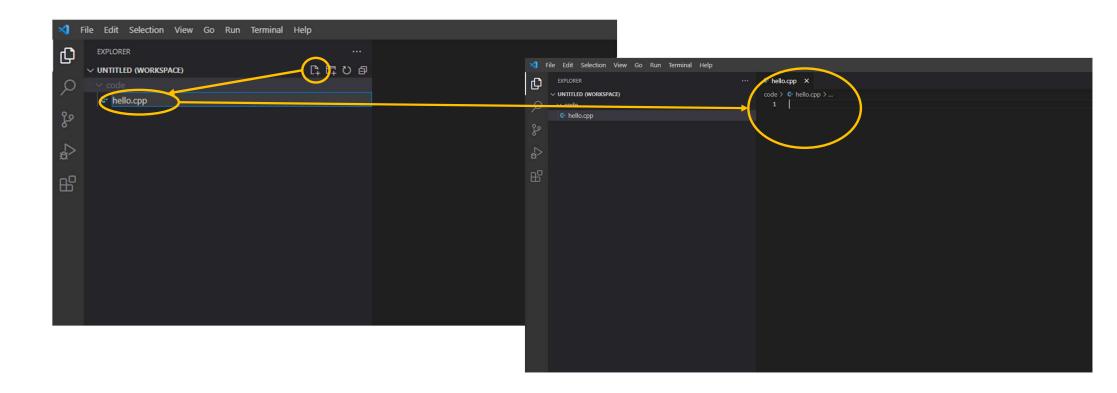


Open a folder in the workspace

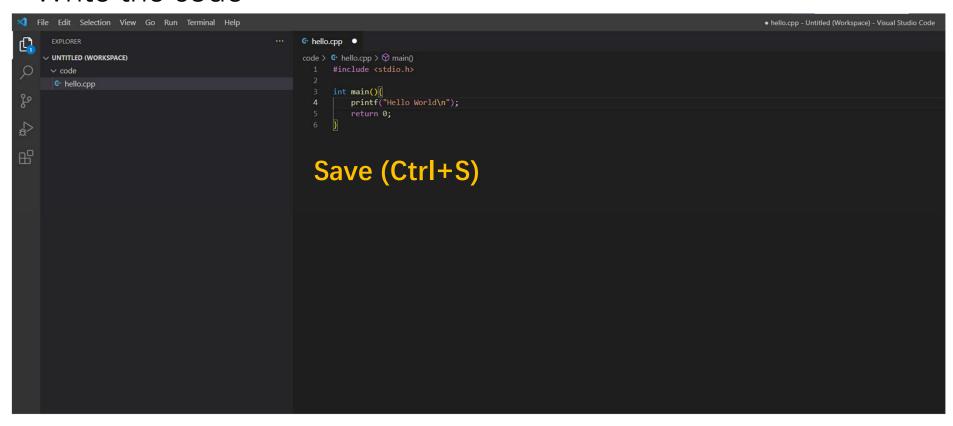




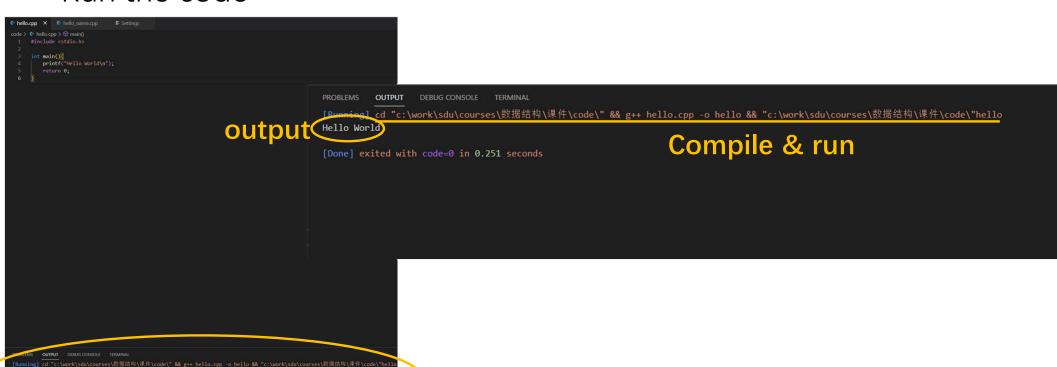
• Create a new file help.cpp



• Write the code



• Run the code



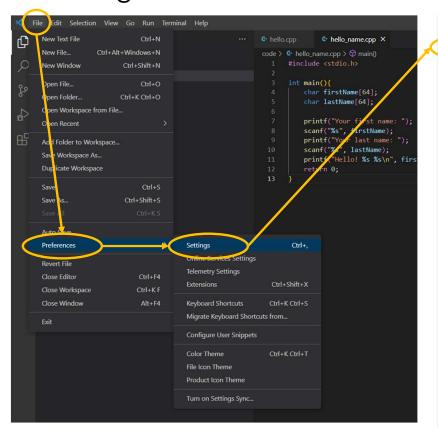
#### Configure to run in a terminal

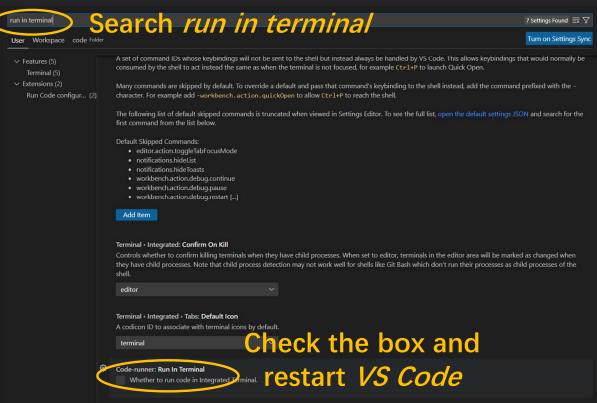
A program accepting inputs



### Configure to run in a terminal

Configure the code-runner extension





### Configure to run in a terminal

Run the program again

```
> C hello_name.cpp > 分 main()
#include <stdio.h>
       char lastName[64];
       scanf("%s", firstName);
printf("Your last name: ");
       PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                   Windows PowerShell
                                                   版权所有 (C) Microsoft Corporation。保留所有权利。
                                                   尝试新的跨平台 PowerShell https://aka.ms/pscore6
                                                   PS C:\work\sdu\courses\数据结构\课件\code> cd "c:\work\sdu\courses\数据结构\课件\code\"; if ($?) { g++ hello_name.cpp -o hello_name }; if ($?) { .\hello_name }
                                                   Your first name: San
                                                   Your last name: Zhang
                                                   Hello! San Zhang
                                                   PS C:\work\sdu\courses\数据结构\课件\code>
Windows PowerShell
版权所有 (C) Microsoft Corporation。保留所有权利。
尝试新的跨平台 PowerShell https://aka.ms/pscore6
PS C:\work\sdu\courses\数据结构\课件\code> cd "c:\work\sdu\courses\数据结构\课件\code\" ; if ($?) { g++ hellomame.cp -o hello_name } ; if ($?) { .\hello_name }
```

#### Run C/C++ in Linux

• g++ and nano/vim/emacs/...

