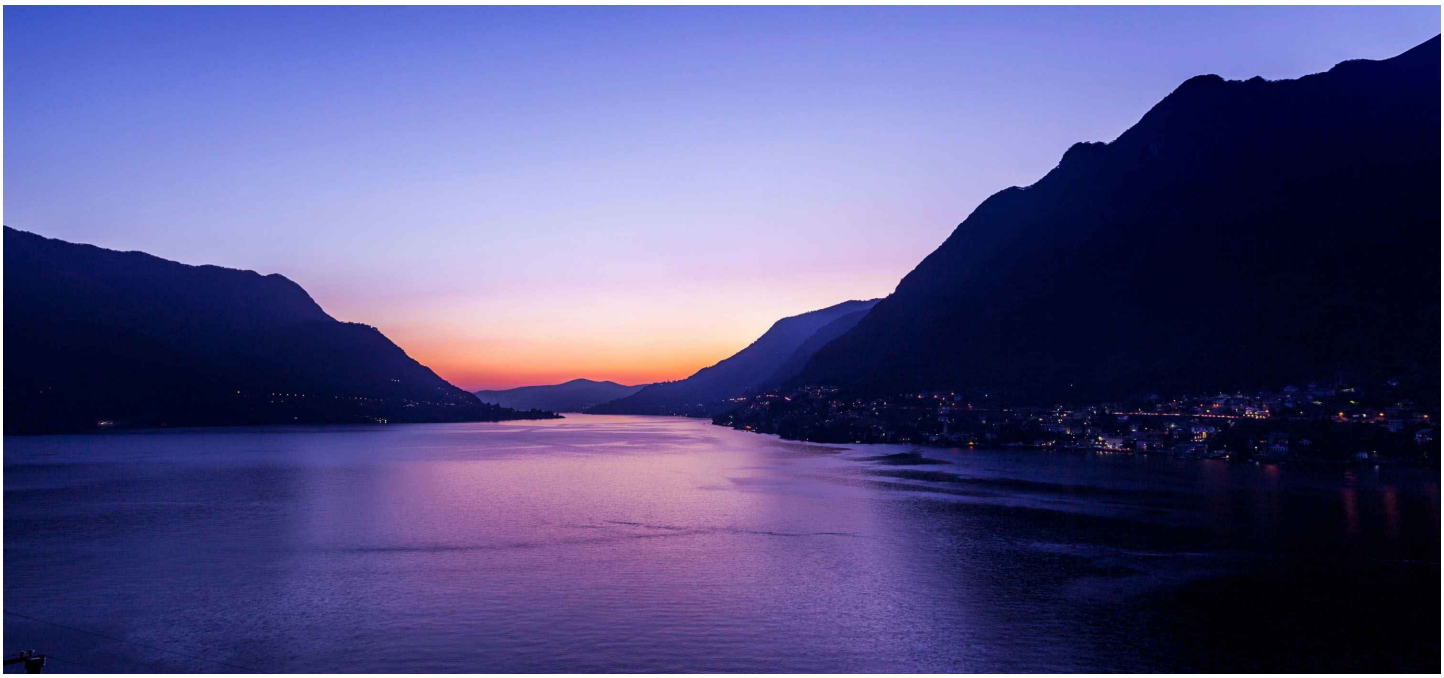
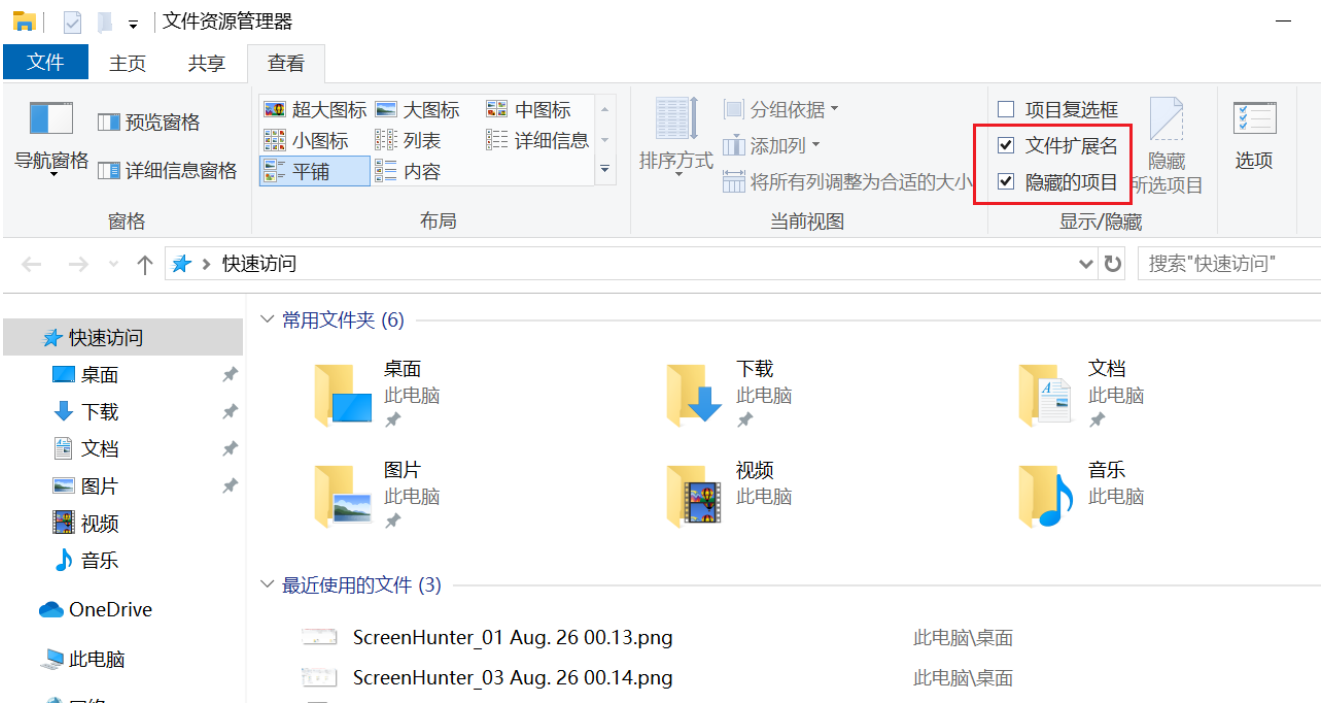


Ready for Code - Window OS

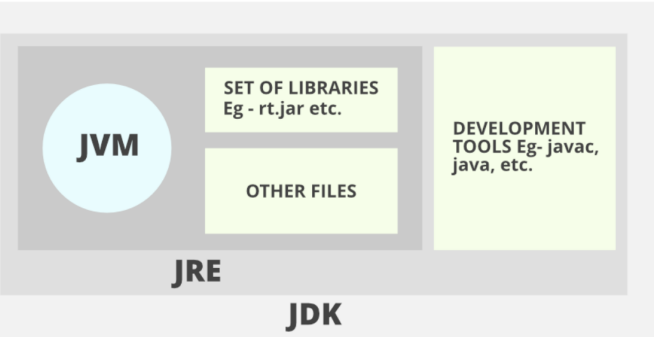
Part 1: Basics & Prerequisites

Show hidden files & file extensions

- View -> "File name extensions" & "Hidden items", check both boxes.
- File name extensions are convenient for developers to handle & visualize code source files
- Lots of generated files/ config files are in hidden mode. We should visualize them for development.



Part 2: Install JDK

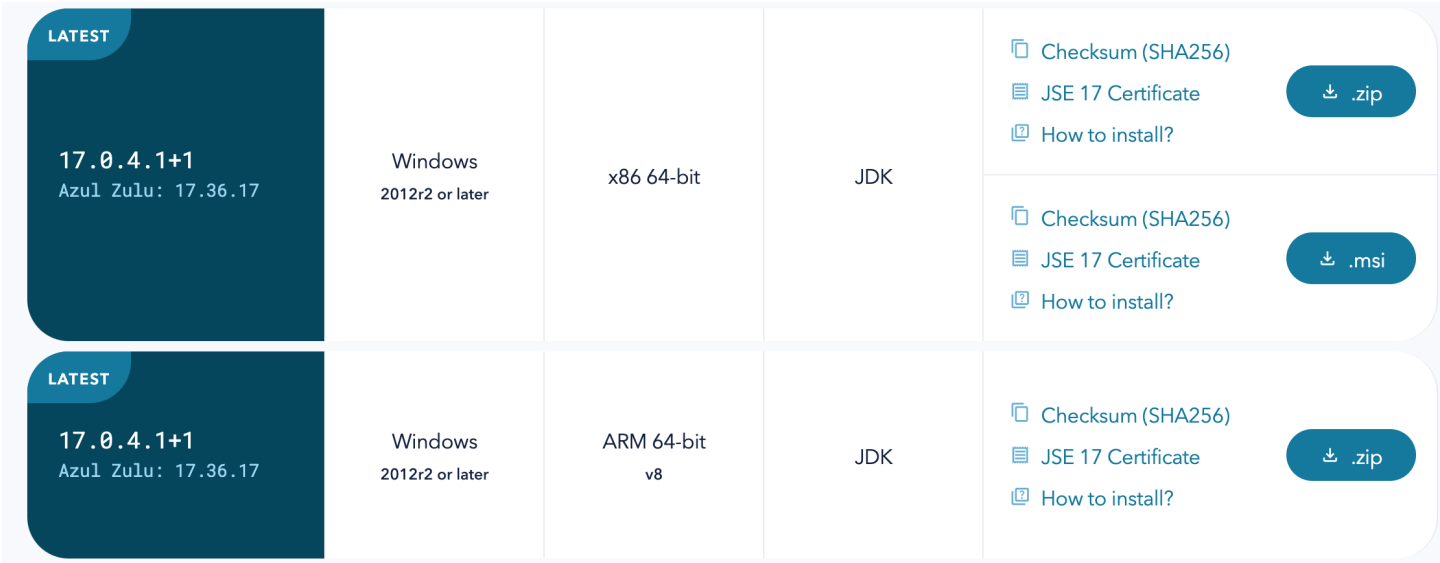


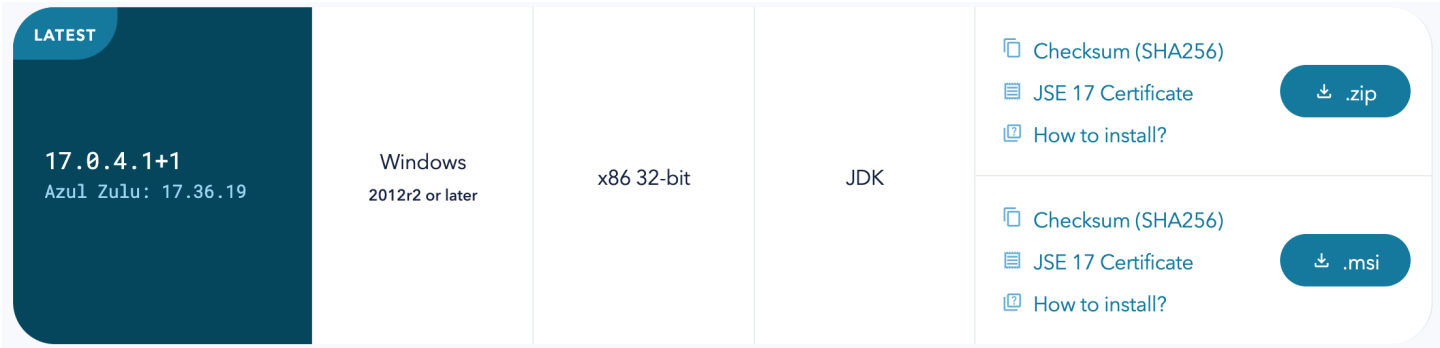
Based on your laptop specification, choose the corresponding JDK version to download.

`x86 64bit` : https://cdn.azul.com/zulu/bin/zulu17.36.17-ca-jdk17.0.4.1-win_x64.zip

`x86 32bit` : https://cdn.azul.com/zulu/bin/zulu17.36.19-ca-jdk17.0.4.1-win_i686.zip

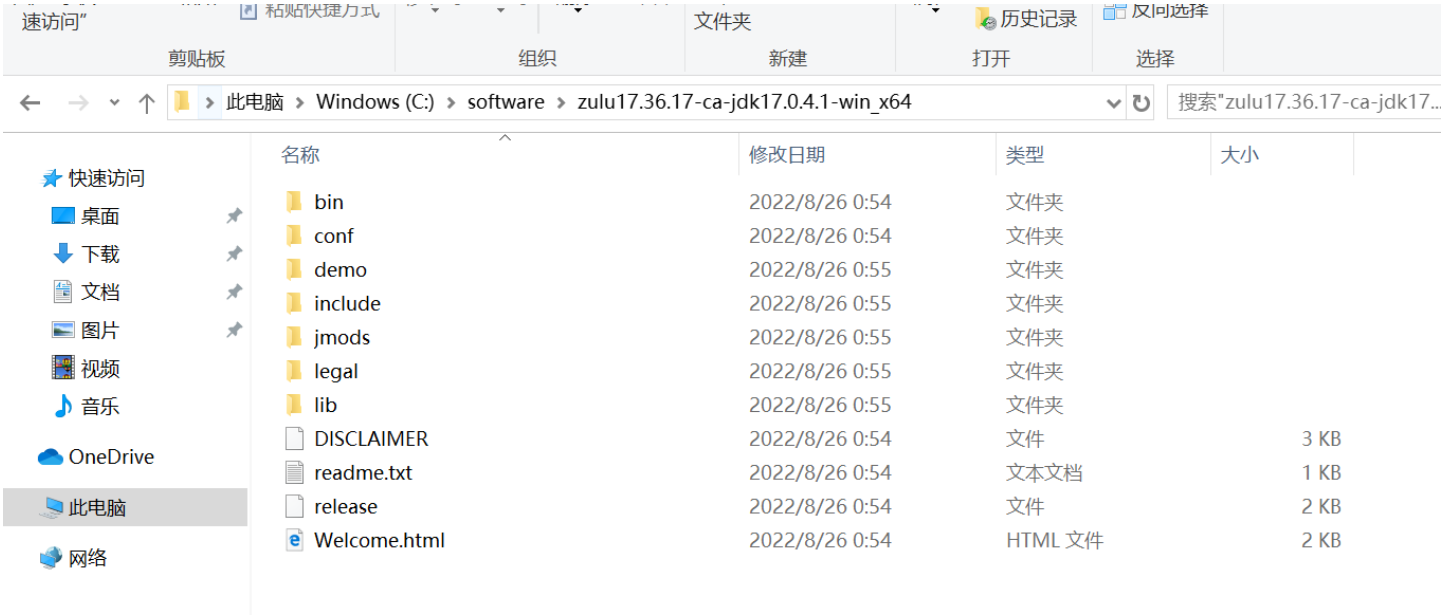
`arm 64 bit` : https://cdn.azul.com/zulu/bin/zulu17.36.17-ca-jdk17.0.4.1-win_aarch64.zip





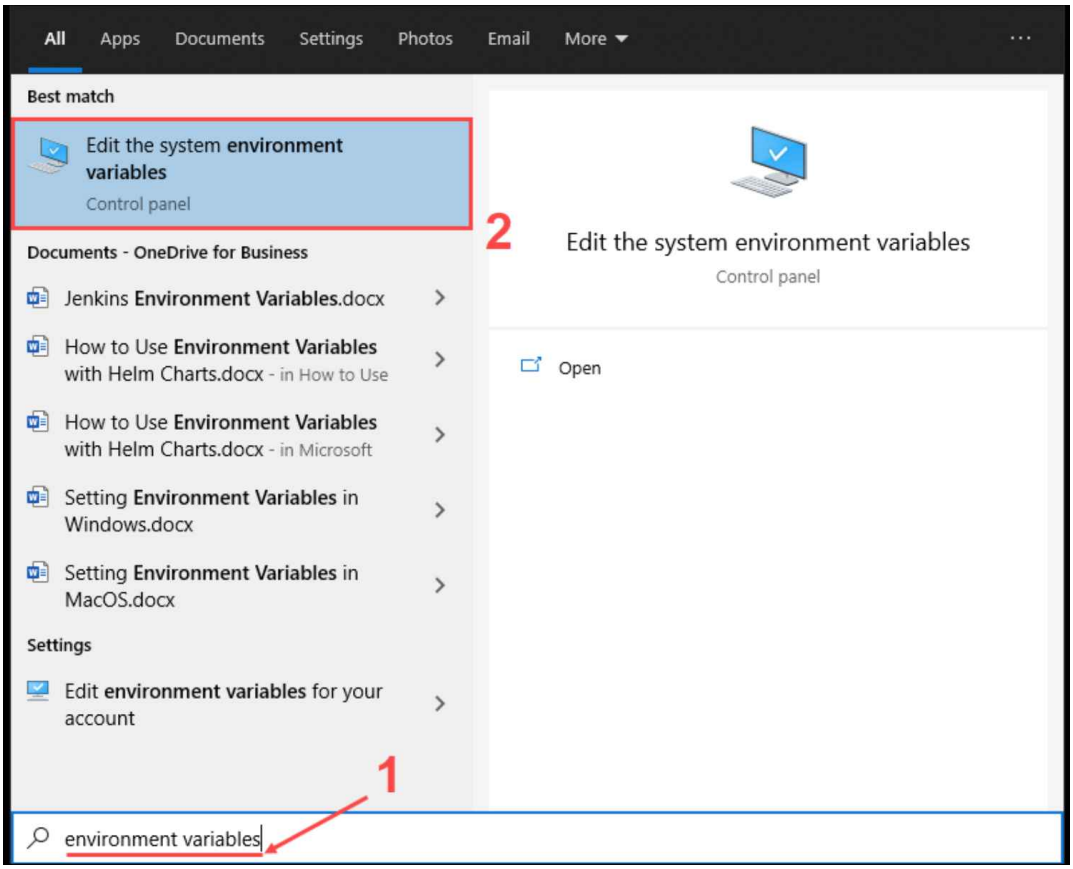
- Place the unzipped package inside your preferred subfolder.

For example, C:\software\zulu17.36.17-ca-jdk17.0.4.1-win_x64

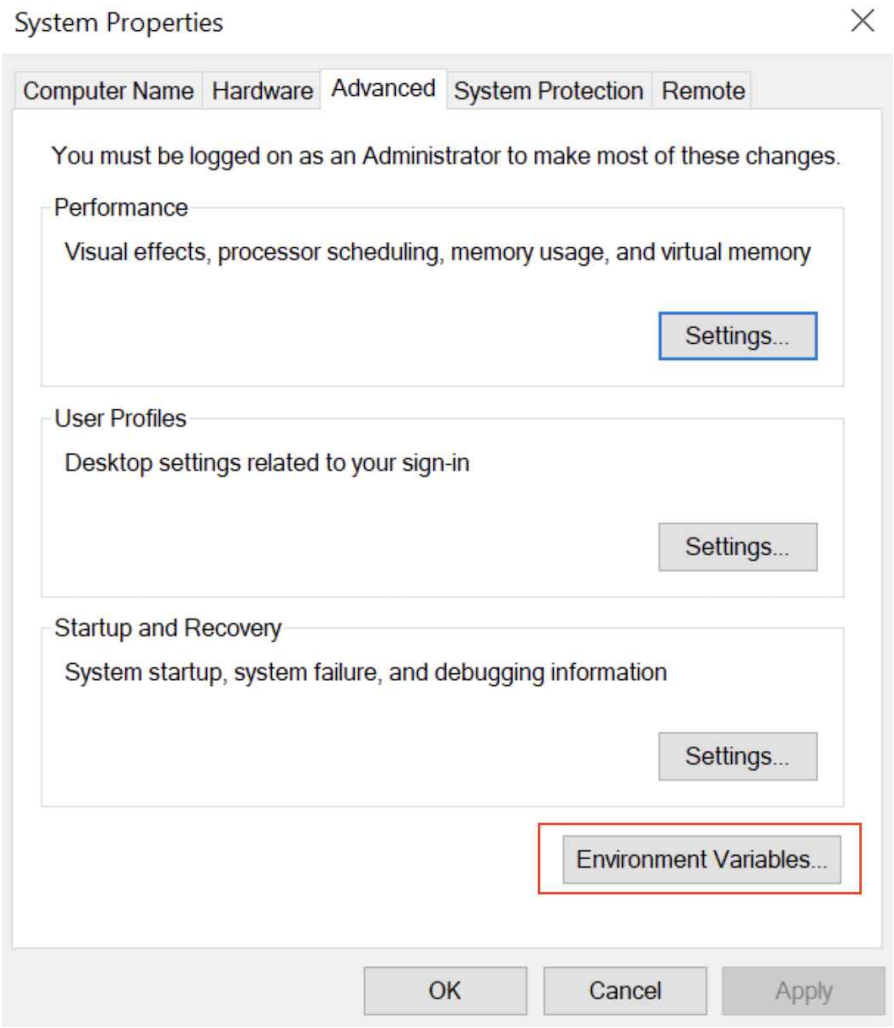


- Setup %PATH% & %JAVA_HOME%

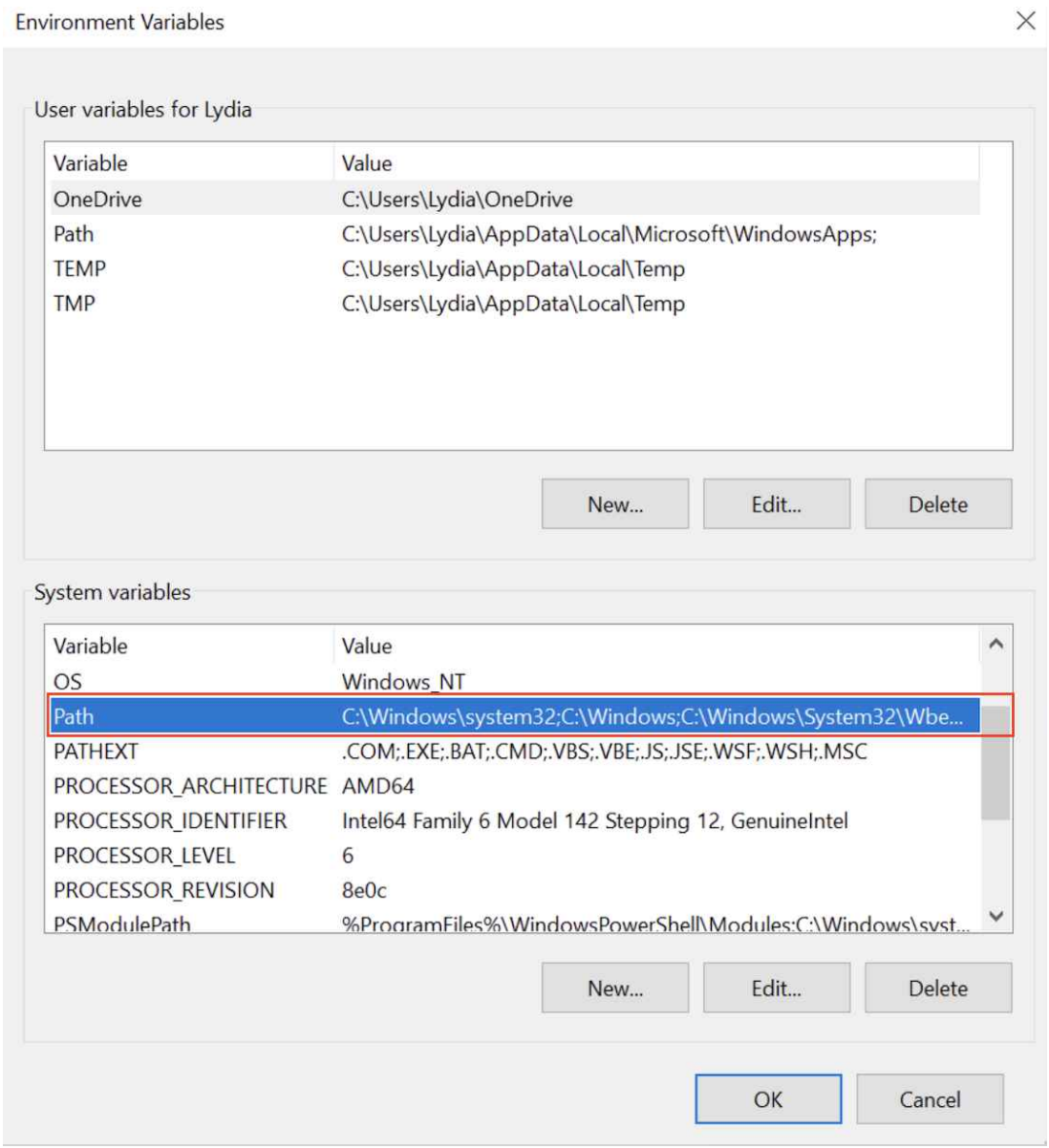
Go to "System enviroment variables" in the control panel



- Advanced -> Environment Variables

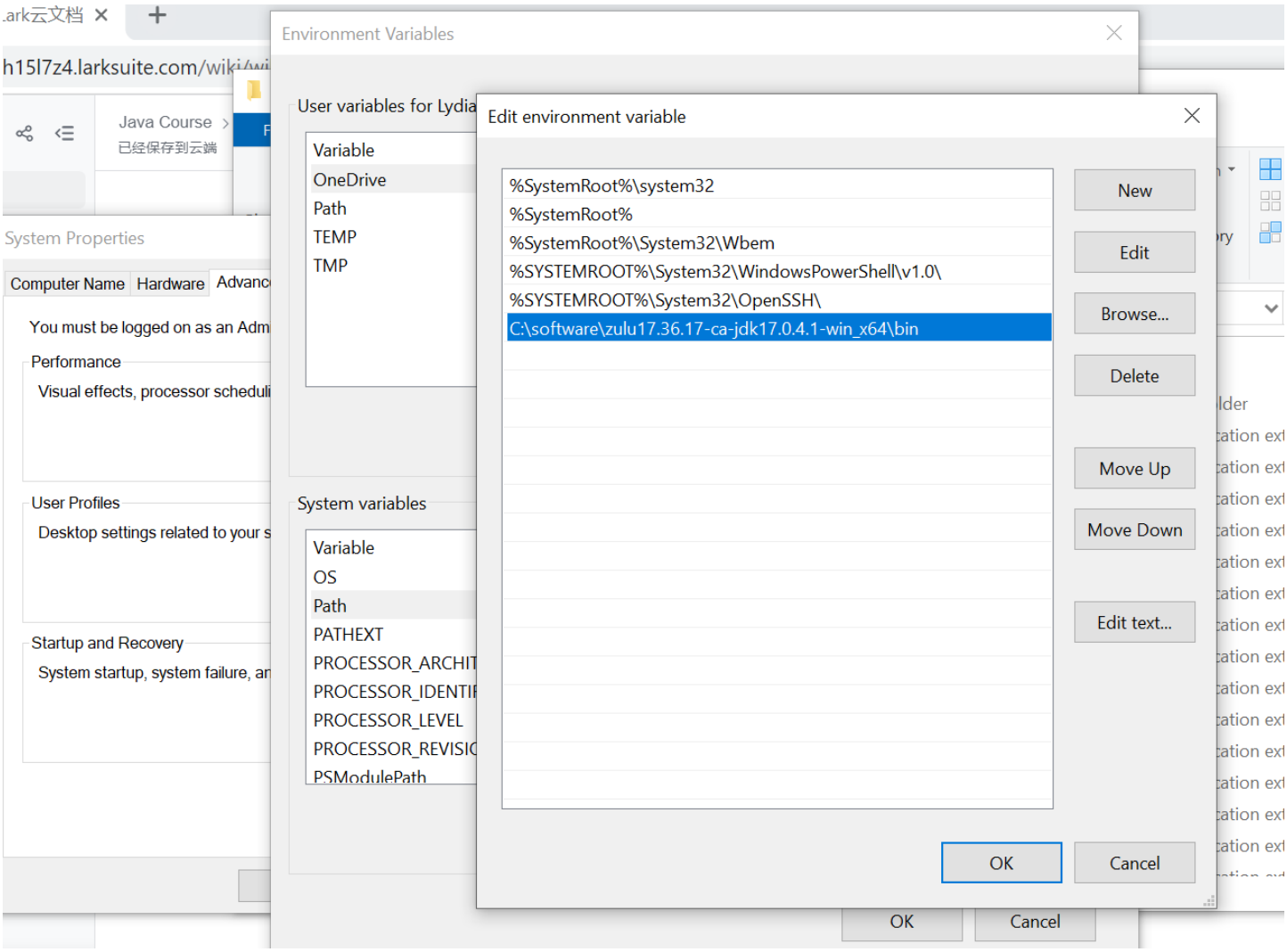


- In System variables, select "Path", and then "Edit".

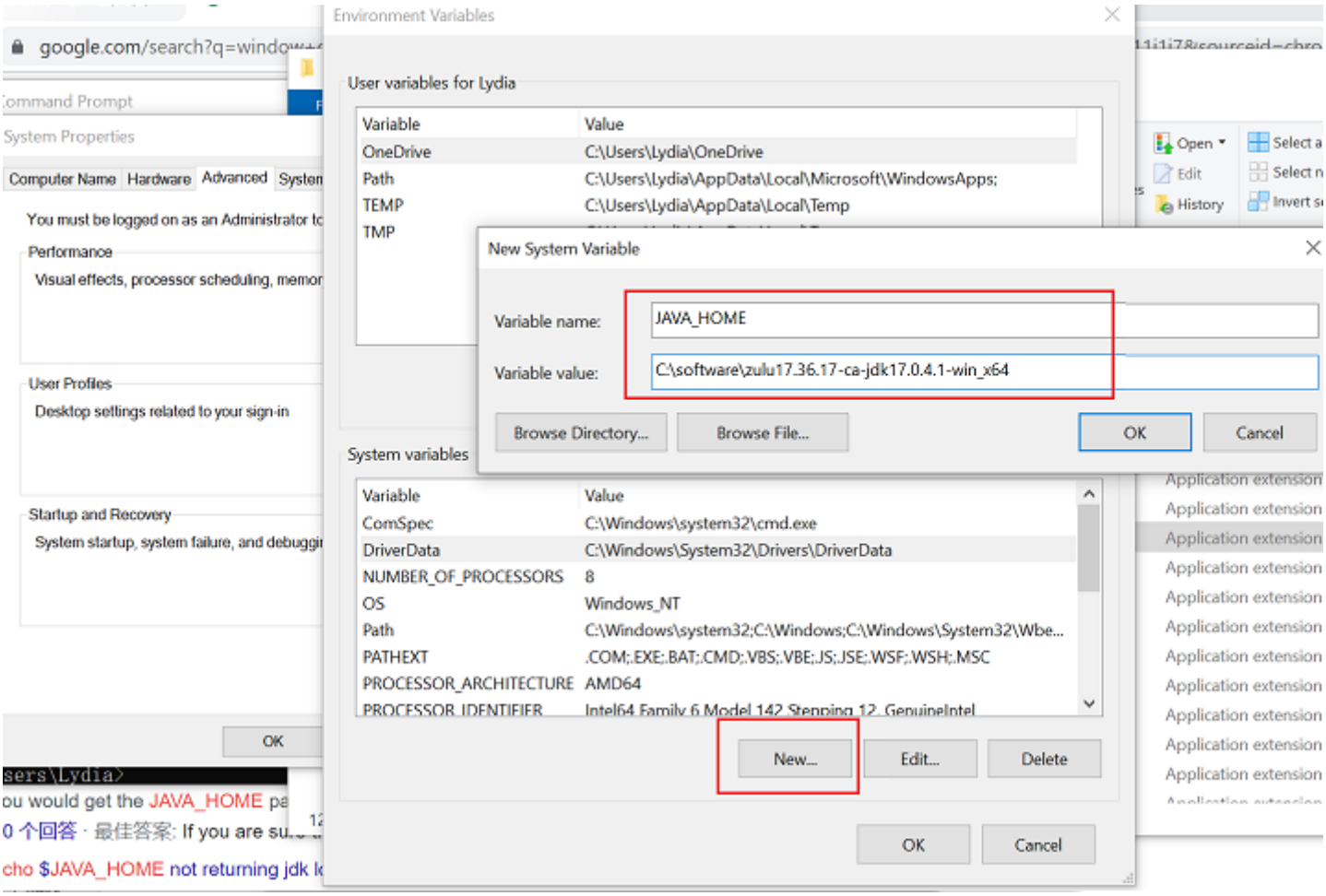


- Click "New", and place the JDK installed path as below.

C:\software\zulu17.36.17-ca-jdk17.0.4.1-win_x64**bin**



- Back to "System variables", "New" a new variable "JAVA_HOME", and place the JDK installed path (the path **not includes \bin**).
- C:\software\zulu17.36.17-ca-jdk17.0.4.1-win_x64



[result check]

- CMD to check if JDK is installed correctly

```
1 java --version
```

```
1 echo %JAVA_HOME%
```

```
1 echo %PATH%
```

```
Select Command Prompt
Microsoft Windows [Version 10.0.18362.836]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Lydia>cd ..

C:\Users>java --version
openjdk 17.0.4.1 2022-08-12 LTS
OpenJDK Runtime Environment Zulu17.36+17-CA (build 17.0.4.1+1-LTS)
OpenJDK 64-Bit Server VM Zulu17.36+17-CA (build 17.0.4.1+1-LTS, mixed mode, sharing)

C:\Users>echo %JAVA_HOME%
C:\software\zulu17.36.17-ca-jdk17.0.4.1-win_x64

C:\Users>echo %PATH%
C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;C:\Windows\System32\WindowsPowerShell\v1.0\;C:\Windows\System32\
OpenSSH\;C:\software\zulu17.36.17-ca-jdk17.0.4.1-win_x64\bin;C:\Users\Lydia\AppData\Local\Microsoft\WindowsApps;
```

- "javac" should show guidelines on how to use javac.

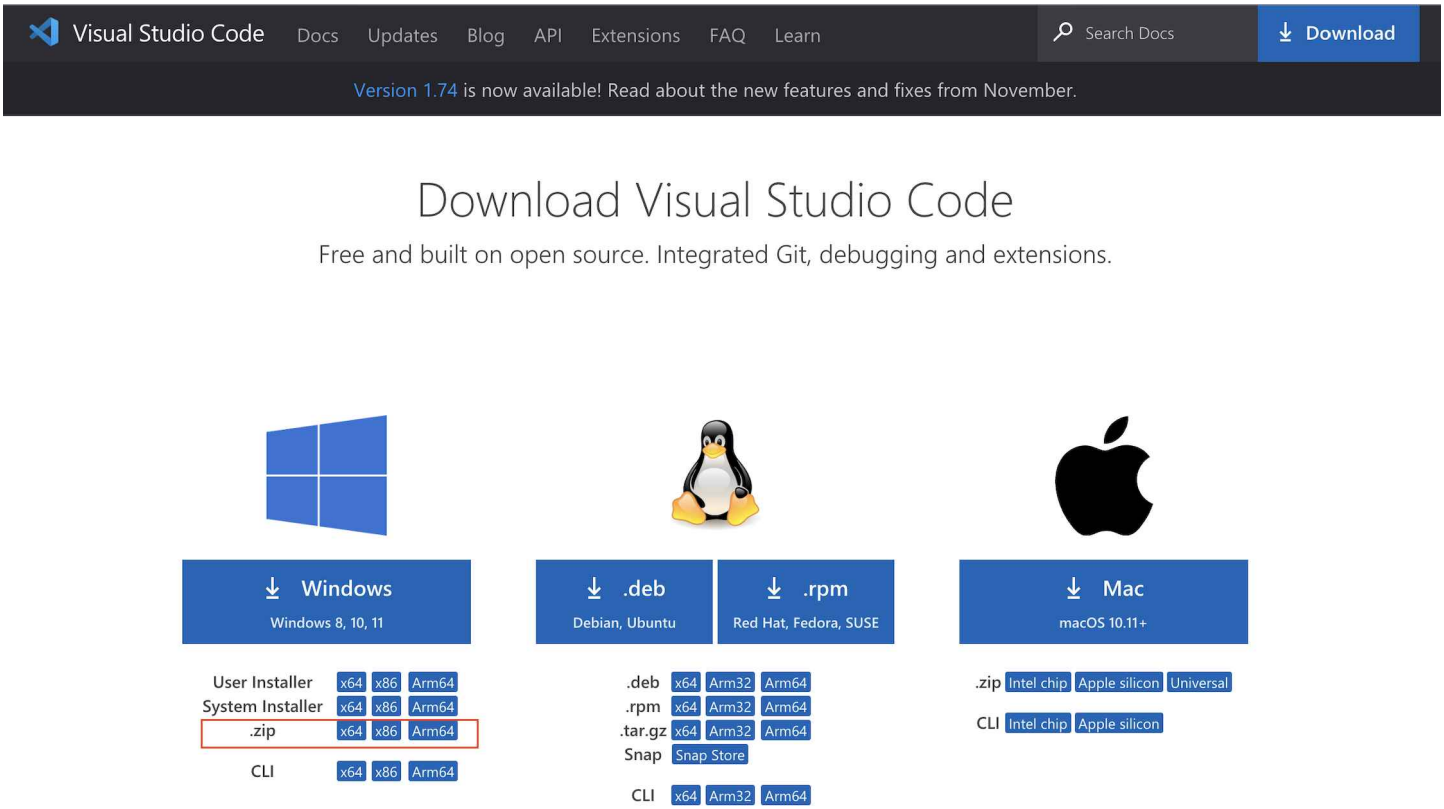
```
Command Prompt

C:\Users>javac
Usage: javac <options> <source files>
where possible options include:
  @<filename>                  Read options and filenames from file
  -Akey[=value]                Options to pass to annotation processors
  --add-modules <module>(,<module>)*
        Root modules to resolve in addition to the initial modules, or all modules
        on the module path if <module> is ALL-MODULE-PATH.
  --boot-class-path <path>, -bootclasspath <path>
        Override location of bootstrap class files
  --class-path <path>, -classpath <path>, -cp <path>
        Specify where to find user class files and annotation processors
  -d <directory>               Specify where to place generated class files
  -deprecation
        Output source locations where deprecated APIs are used
  --enable-preview
        Enable preview language features. To be used in conjunction with either -source or --release.
  -encoding <encoding>         Specify character encoding used by source files
  -endorseddirs <dirs>         Override location of endorsed standards path
  -extdirs <dirs>              Override location of installed extensions
  -g                           Generate all debugging info
```

Part 3: Install VSCode

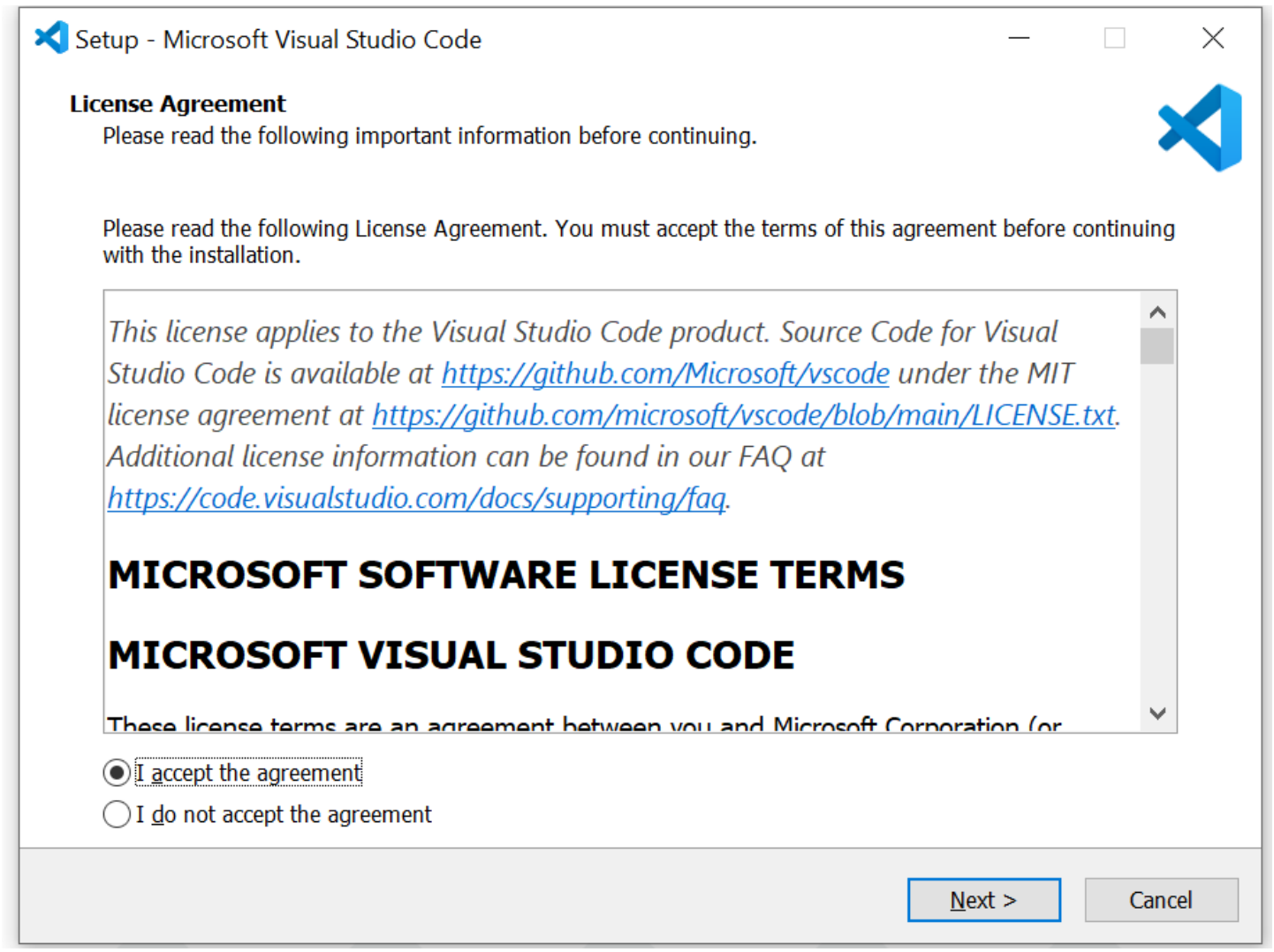
3.1 Install VSCode from Official Site

- Install VScode in Windows OS directly, you can still use VSCode in Ubuntu Env.

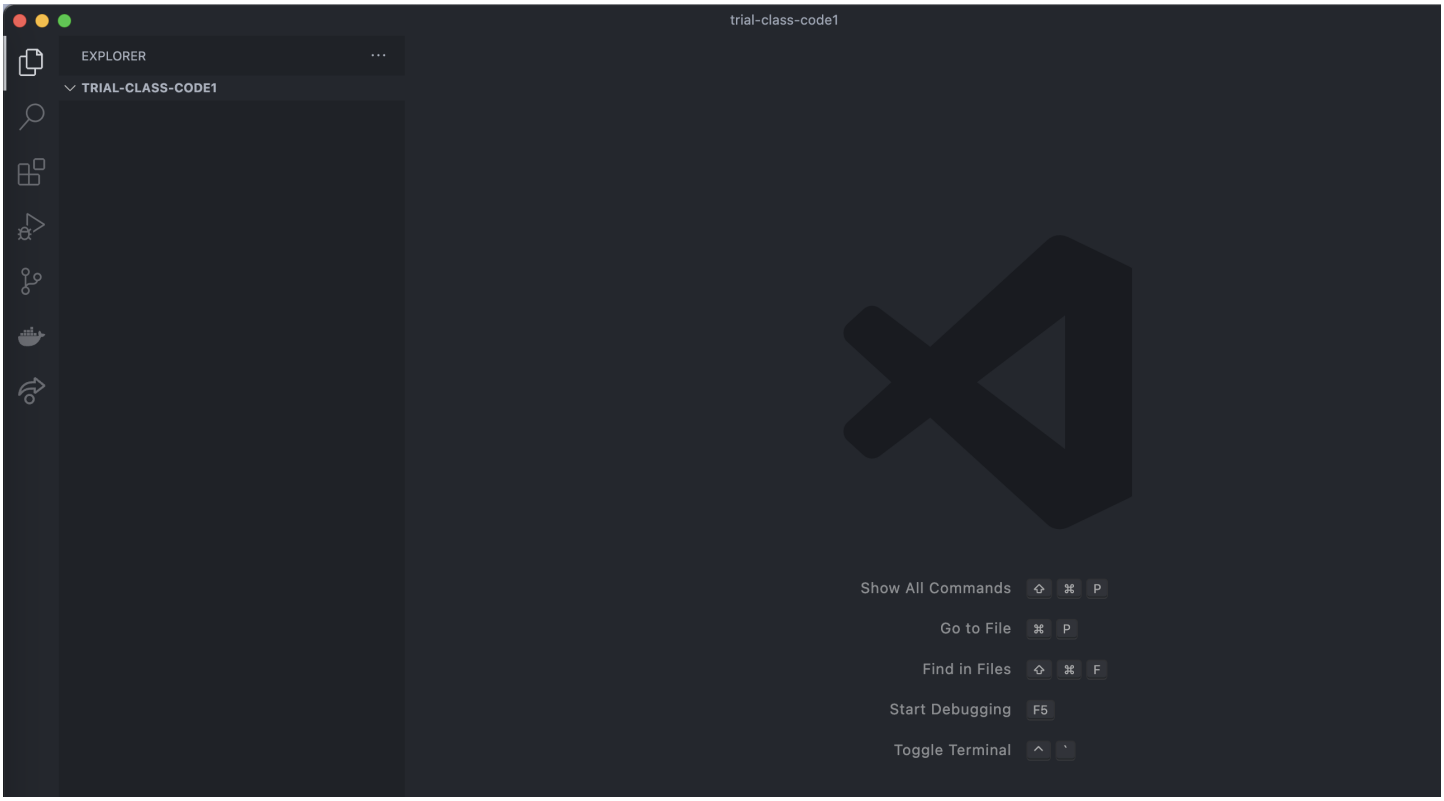
VScode Download - **Choose Windows x64 zip file (depends on the system type)**



- After downloading and unzipping, start the installation.

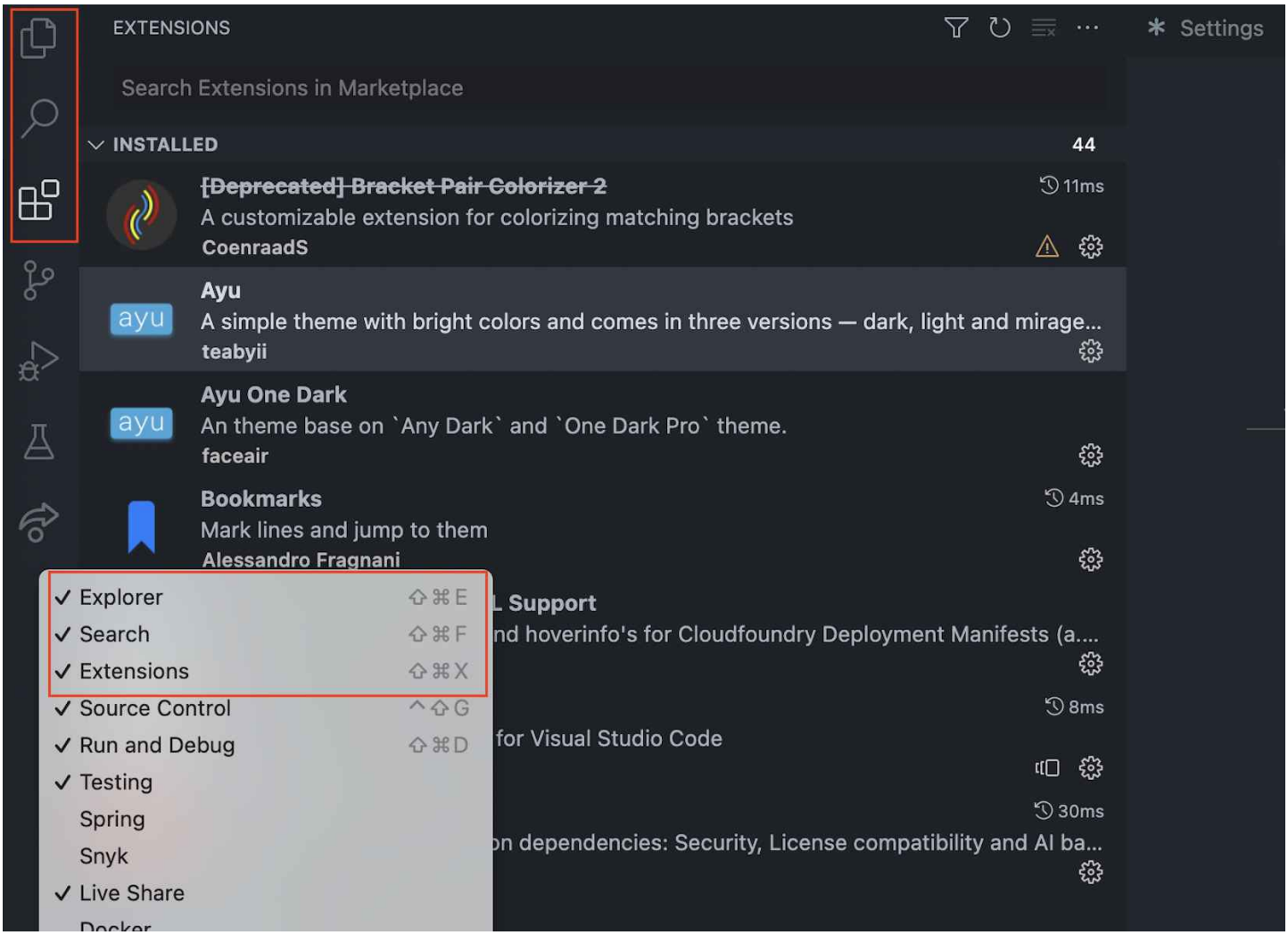


- Create a new folder, named "trial-class-code" **(This folder can be placed inside any favourite subfolder)**
- Launch the VSCode Application.
- File -> Open... -> Select the folder you just created (trial-class-code) -> Click "Open"
- You should find your VSCode similar to the following screen.



3.2 Extensions

- Explorer / Search / Extensions are common functions in VScode. Put it in the menu bar on the left hand side of VSCode.



- **You can install all of the extensions below:**
- One Dark Pro
- Extension Pack for Java
- Maven for Java
- Debugger for Java
- Project Manager for Java
- Test Runner for Java
- Language Support for Java(TM) by Red Hat
- XML