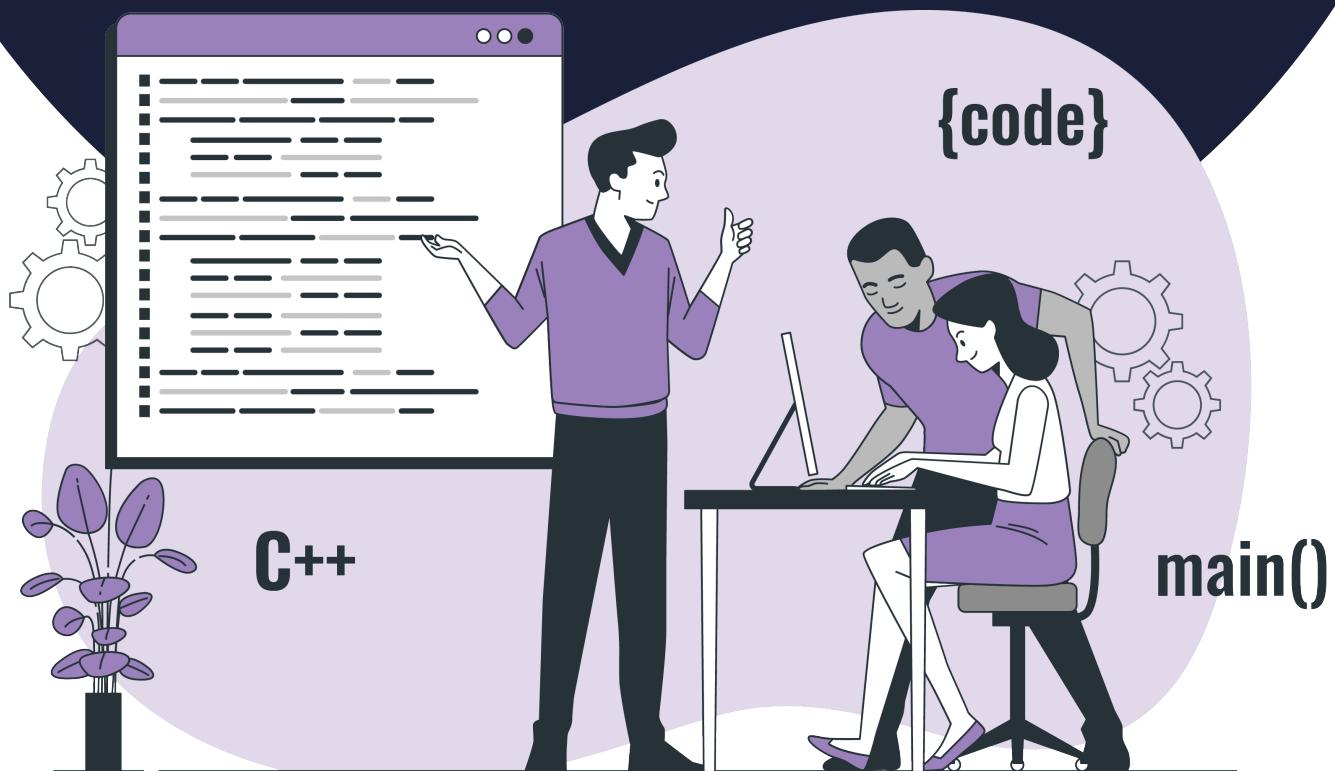


# Lesson:

# C++

# Installation



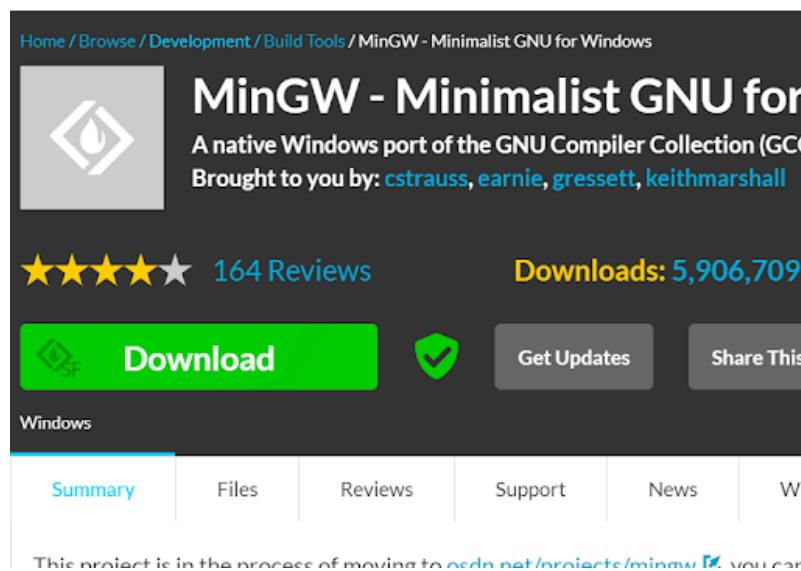
# Installation on Windows

## Content

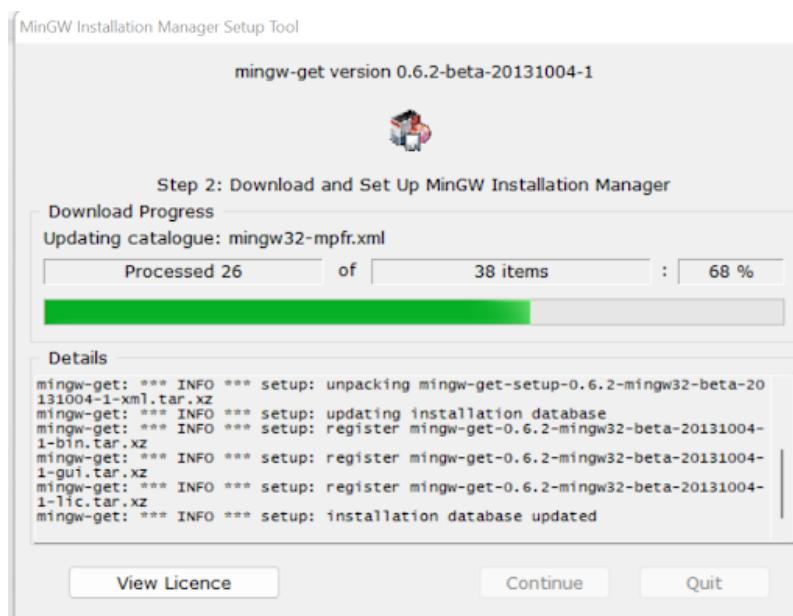
- Downloading and Installing Compiler (MinGW)
- Downloading and Installing VSCode and adding extensions

## Downloading MinGW

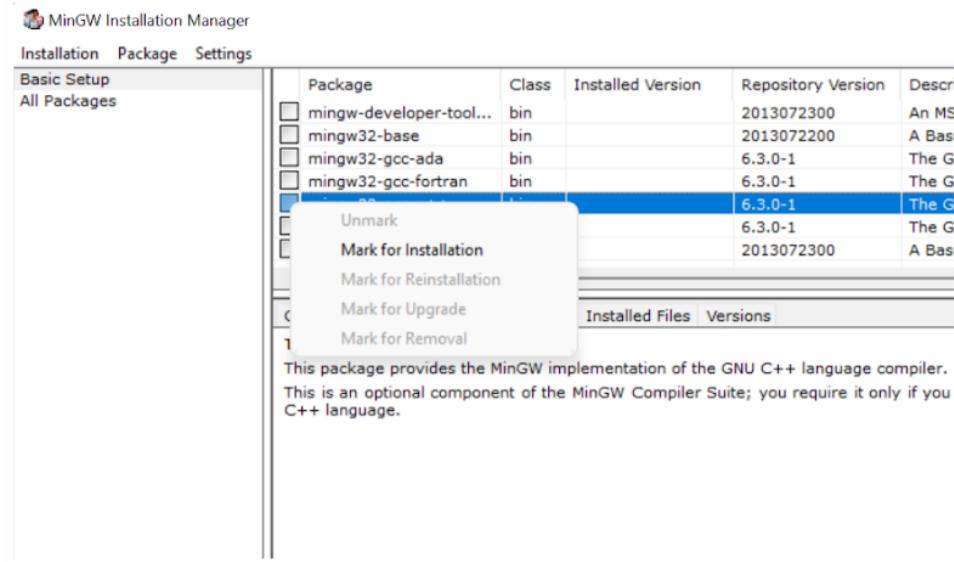
1. Click [this link](#) to download MinGW and click on download in Green as shown.



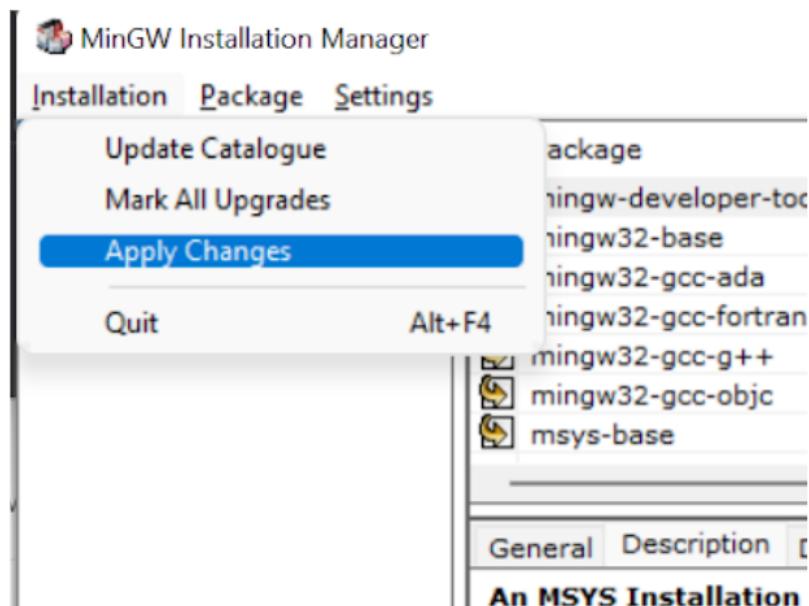
2. After downloading, click on Install and Next.



3. Open the MinGW Installation Manager and Click and Mark All of them for Installation as shown below.

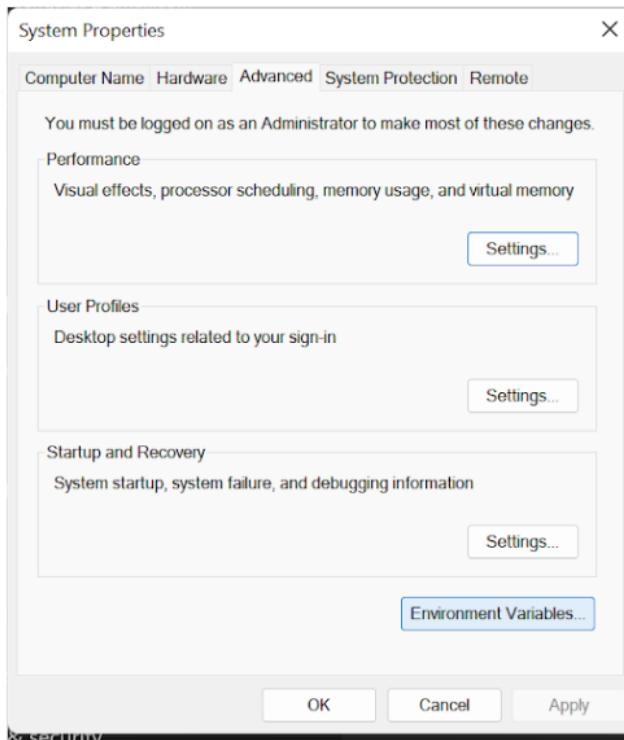


4. Click on Installation on Top Right, then apply changes as shown.

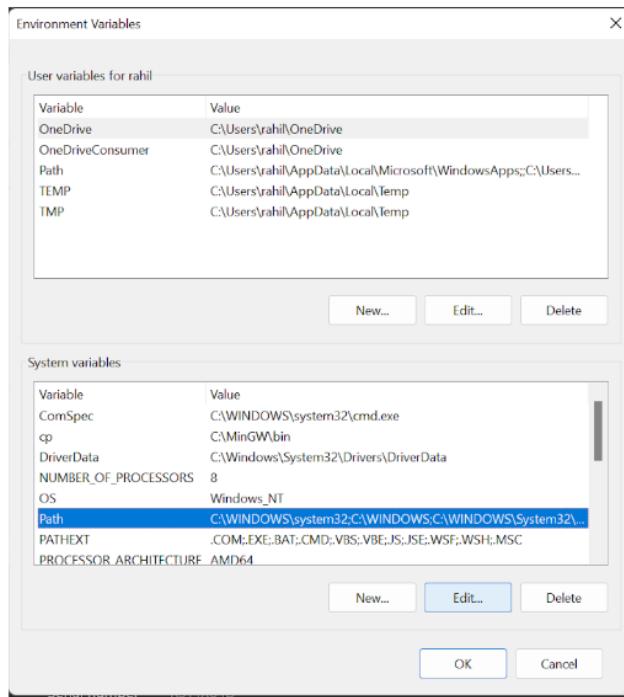


5. Now we will add the MinGW to Path in Environment Variables. To do this, go to  
This PC -> Right click -> Properties -> Advanced System Settings

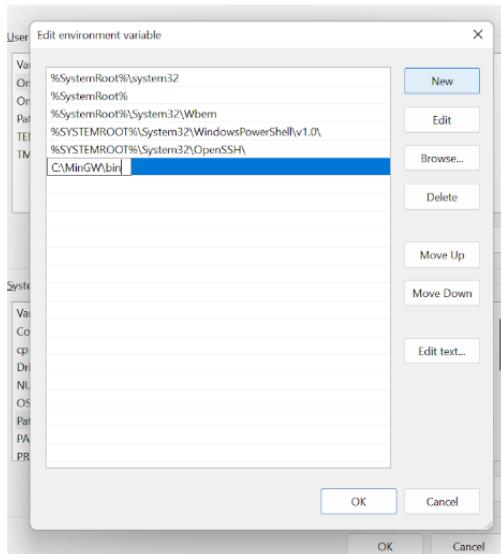
## 6. Click on Environment Variables.



## 7. Go to "Path" and click on "Edit" as shown below.



8. Now click on New and add the address of MinGW Bin as shown below.

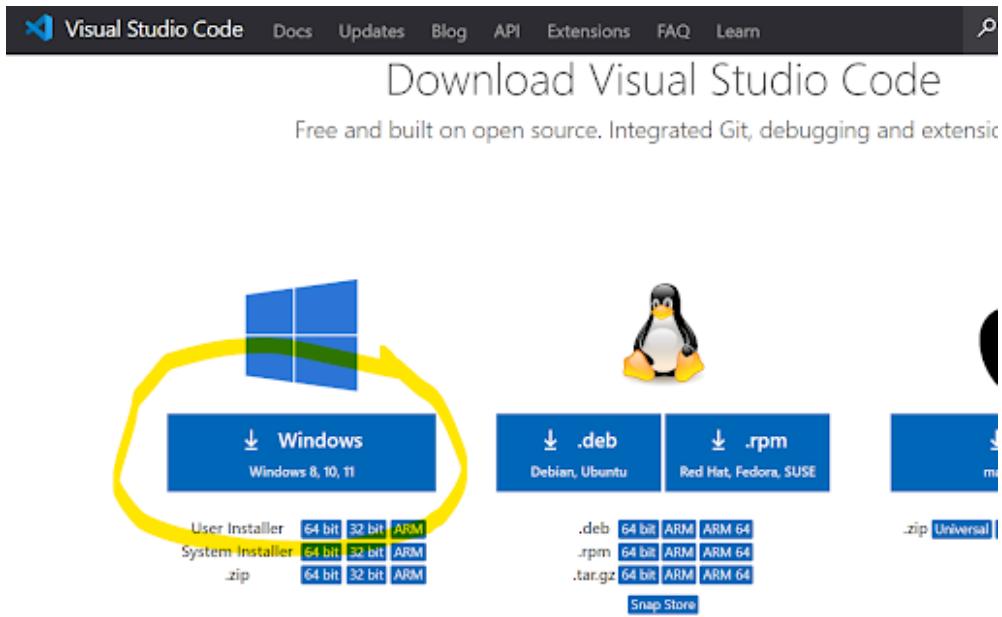


The path will be -> C:\MinGW\bin and C:\MinGW\bin\g++.exe

9. Now just click on "OK".

## Downloading VSCode

1. Click on [this link](#) and then Download as shown.



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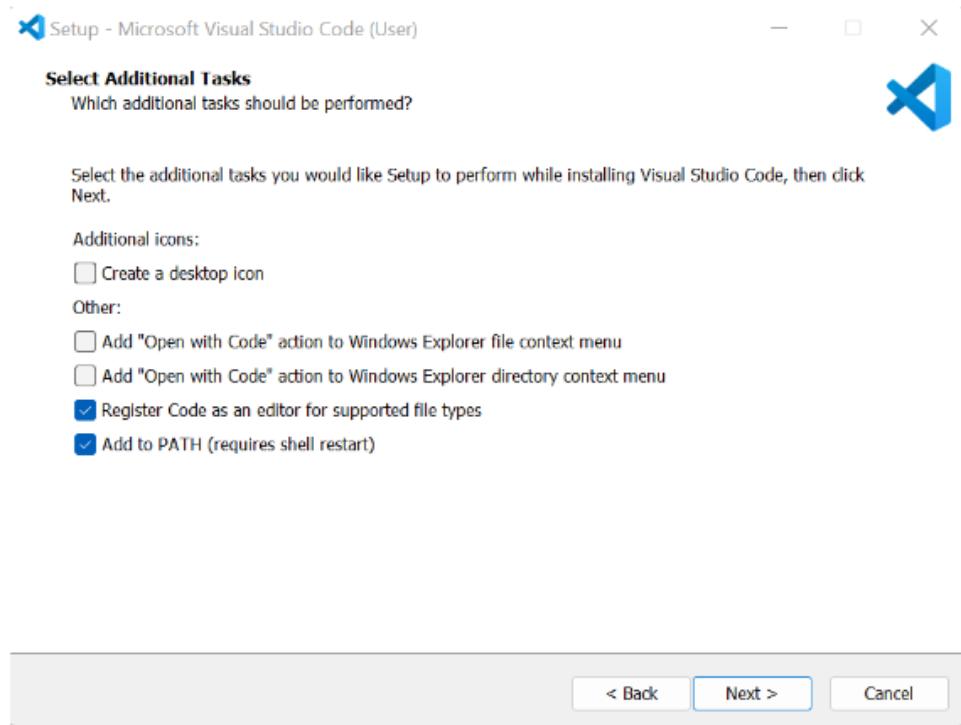
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 <b>Windows</b> Windows 8, 10, 11	 <b>.deb</b> Debian, Ubuntu	 <b>.rpm</b> Red Hat, Fedora, SUSE
User Installer <a href="#">.zip</a>	<a href="#">.deb</a> <a href="#">64 bit</a> <a href="#">32 bit</a> <a href="#">ARM</a>	<a href="#">.rpm</a> <a href="#">64 bit</a> <a href="#">32 bit</a> <a href="#">ARM</a>
System Installer <a href="#">.zip</a>	<a href="#">.tar.gz</a> <a href="#">64 bit</a> <a href="#">32 bit</a> <a href="#">ARM</a>	<a href="#">.zip</a> <a href="#">Universal</a>

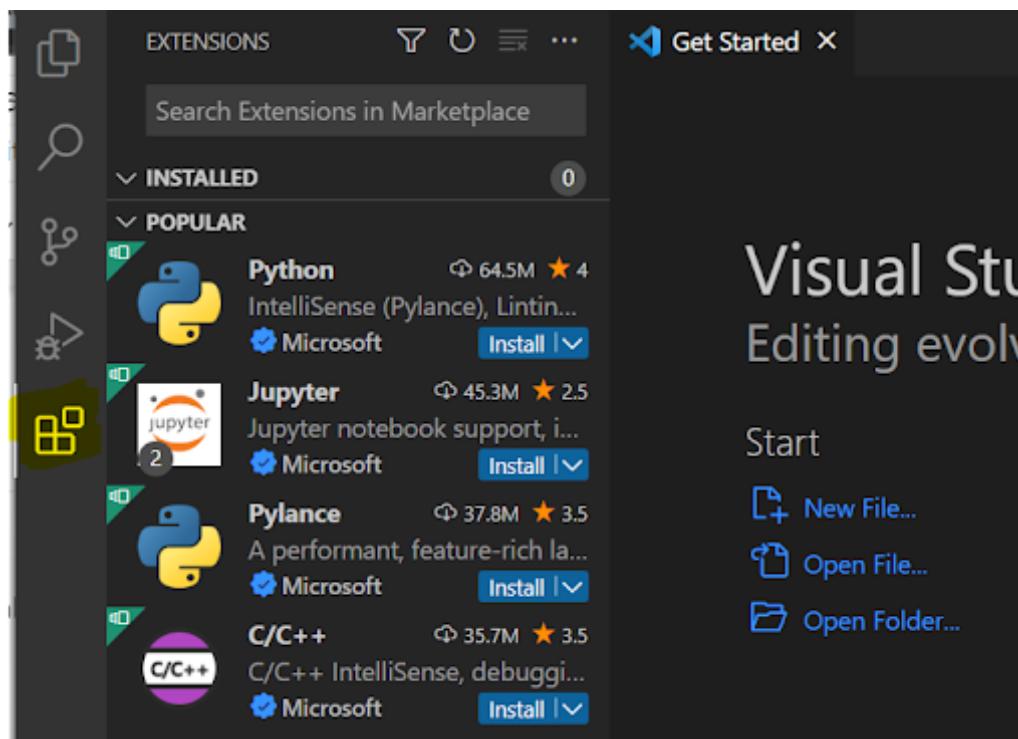
[Snap Store](#)

2. Now install VSCode. Keep on clicking next and make sure to checkbox "Add to Path" as shown.

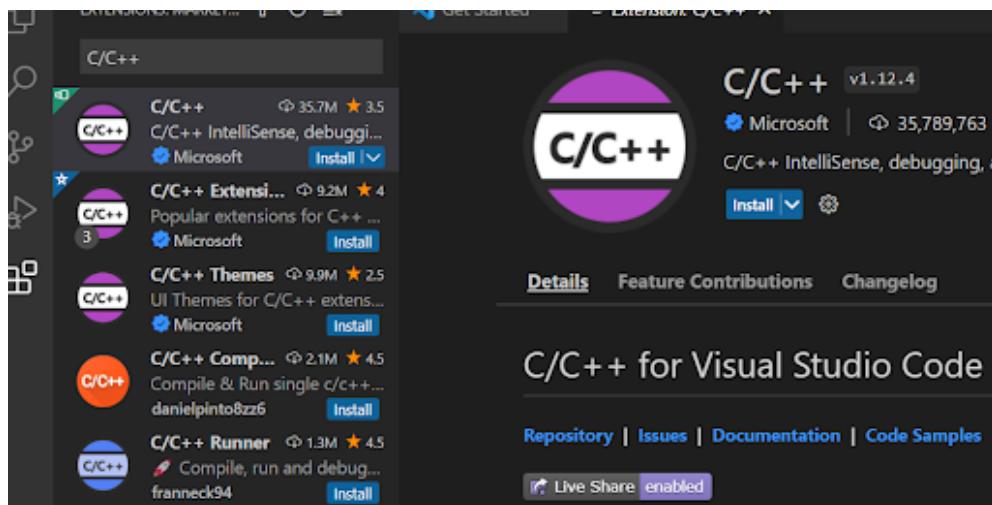


3. Launch VSCode and choose the theme according to your choice and click on "Mark Done".

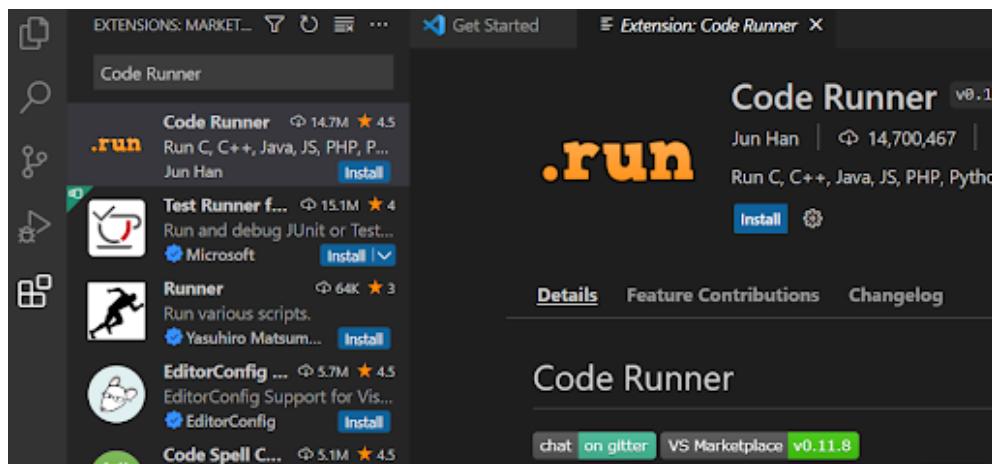
4. Click on Extensions on the left column as highlighted (in yellow).



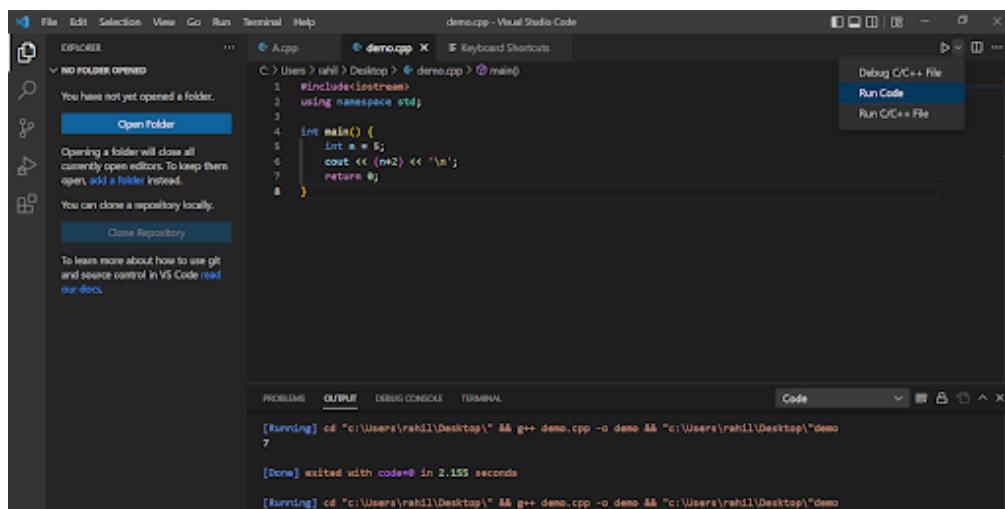
5. Now install the C/C++ extensions by searching it on the Search Bar and click on Install button.



6. Also, install the "Code Runner" extension by searching it on the search bar and click on Install.



7. To run the code click on "Run Code" on the top right as shown below.



# Installation on Mac

## Content

- Downloading and Installing Compiler (MinGW)
- Downloading and Installing VSCode and adding extensions

## Downloading MinGW

1. Firstly we will download the C++ compiler for our Mac machine and for that we're going to download the MinGW compiler. So press Cmd+space, type terminal in the search bar and press enter.
2. In the terminal window copy the code provided below and press enter, this will install Homebrew in your Mac system. This process may take some time so keep patience.

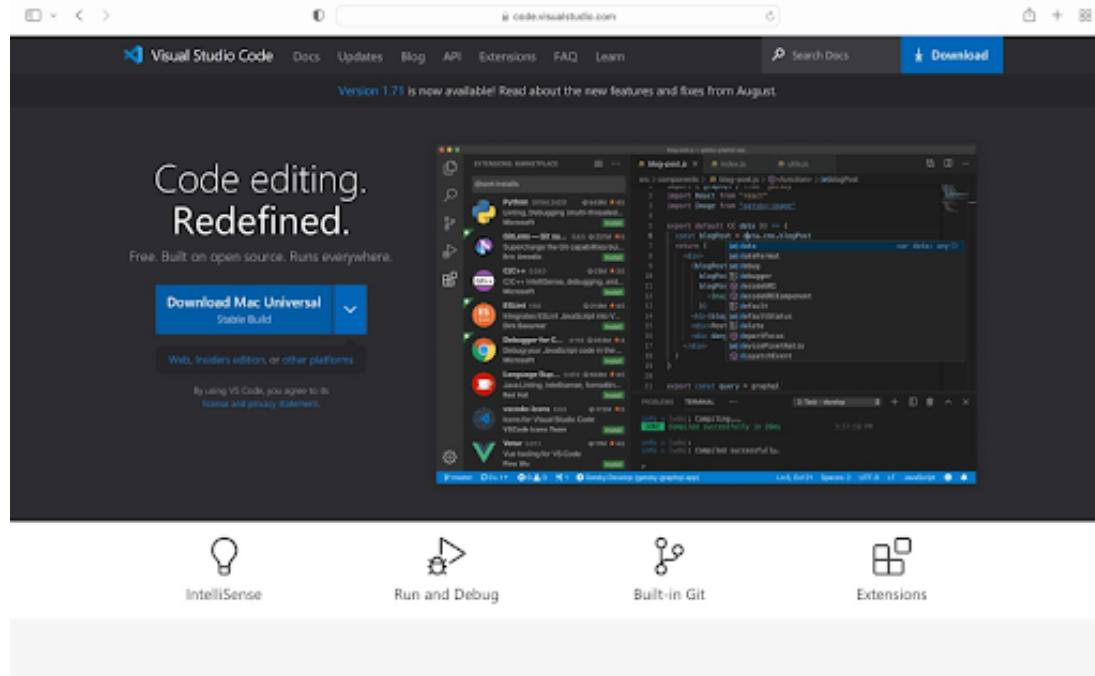
```
/bin/bash -c "$(curl -fsSL
https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

3. Now we'll install the MinGW compiler on your Mac OS, simply copy paste the below provided code and press enter, this process may also take some time. There will be a progress bar showing the percentage of download that has been installed.

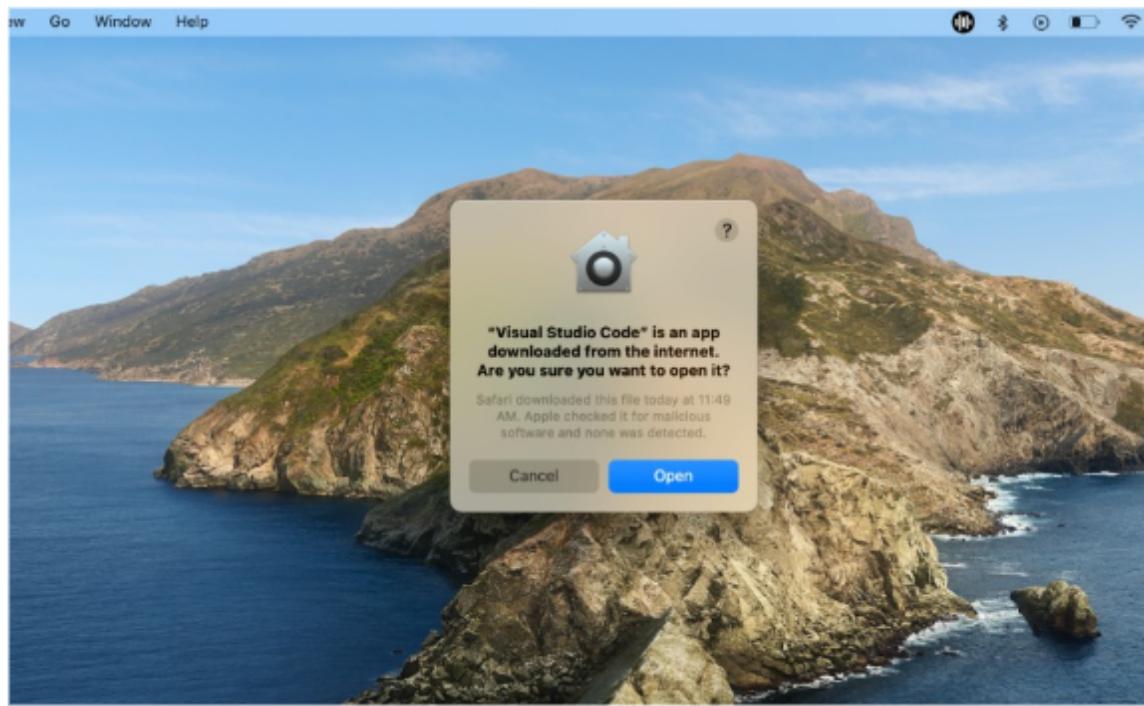
```
brew install MinGW-w64
```

## Downloading VSCode

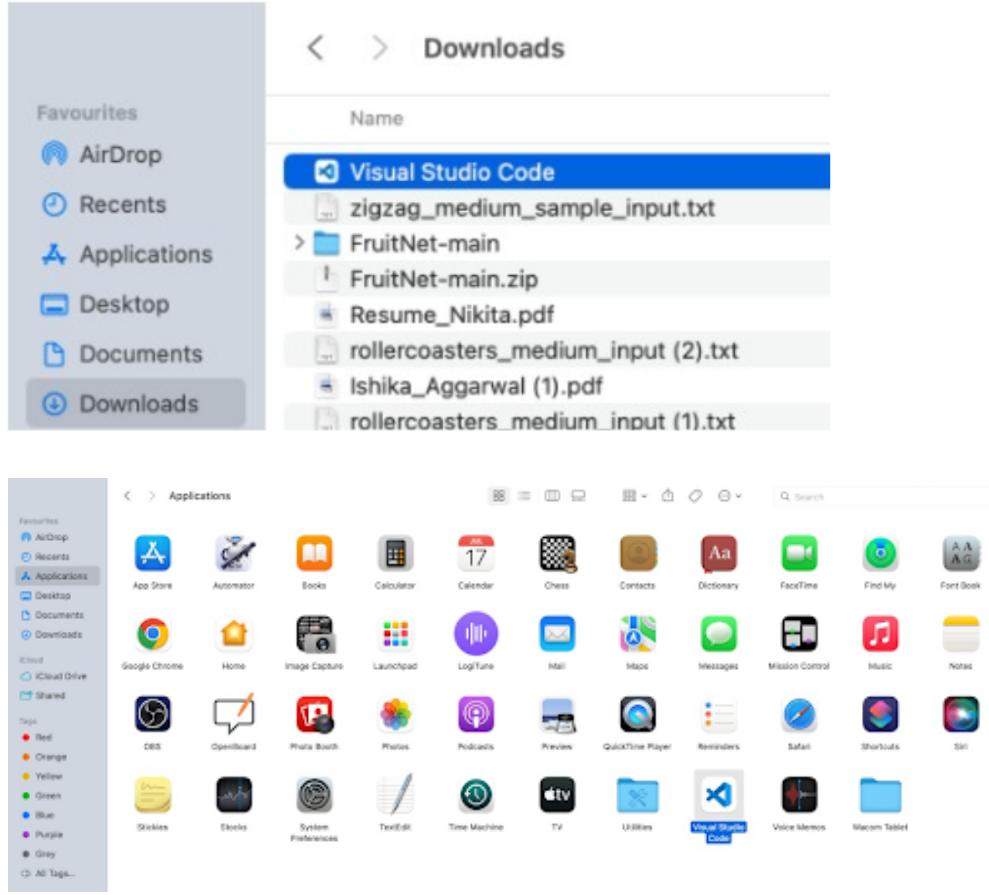
1. Click on [this link](#) and then Download as shown.



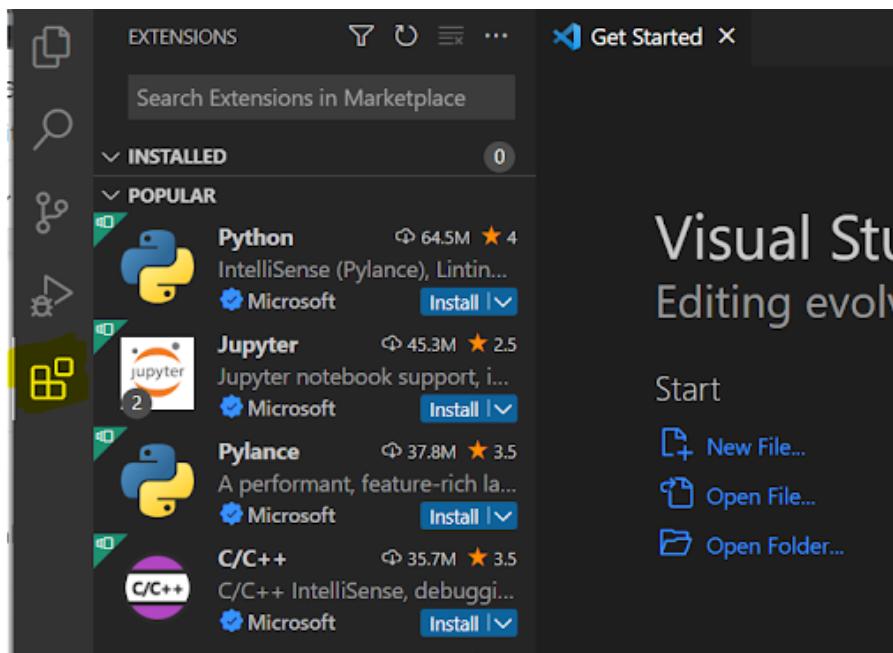
2. Now open it.



3. And move it from "Downloads" to "Applications".



4. Open VSCode and choose the theme according to your choice. Then click on Extensions icon on left side (highlighted in yellow) as shown below.

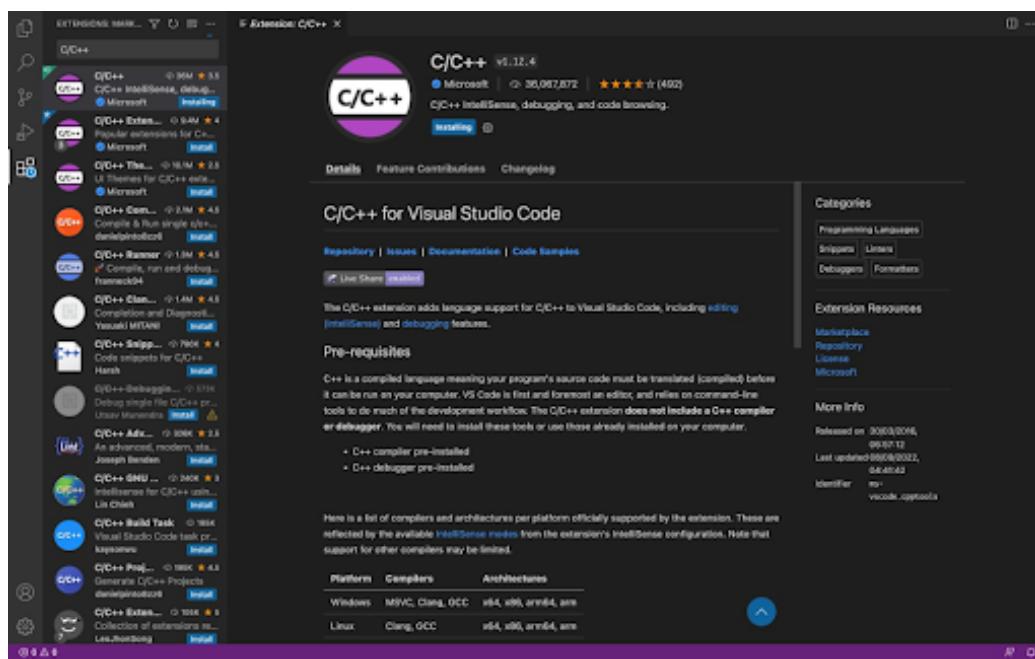


## Visual Studio Editing evolves

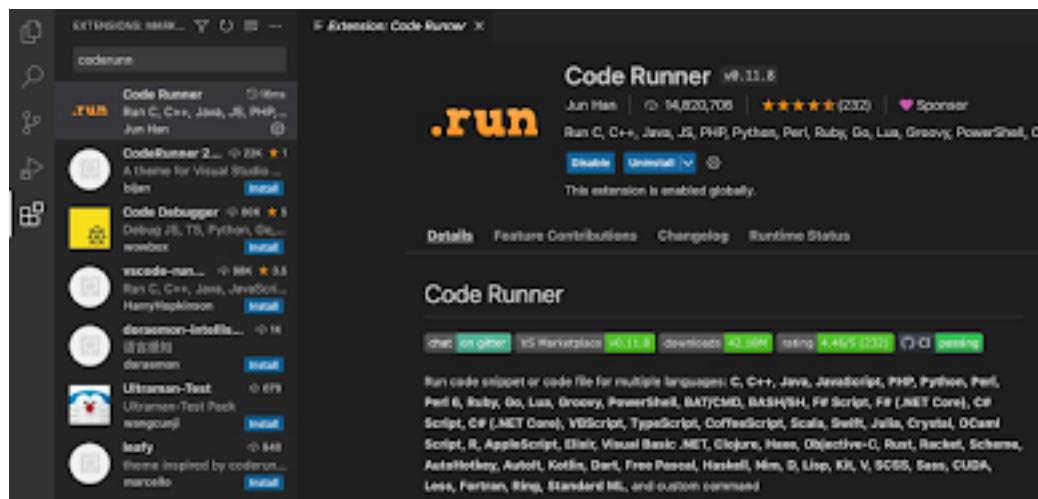
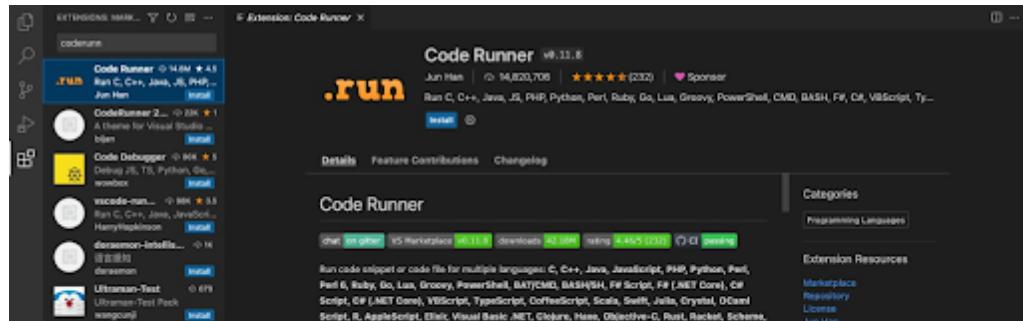
Start

-  New File...
-  Open File...
-  Open Folder...

5. Now install the C/C++ extension by searching on the search bar and click on install



6. Install the second extension by searching “Code Runner” on the search bar and click on install as shown.



7. Congratulations !!!

Now you are ready to run your Code and a step closer to being a programmer !!