

Steps to Install JAVA in your system

Install java 1.8 in your system.

Link to install java file:

https://drive.google.com/file/d/1rmcNO-lj5QDQMq0Qpfz7hM0yci1g5o5I/view?usp=drive_link

Refer the following video to install

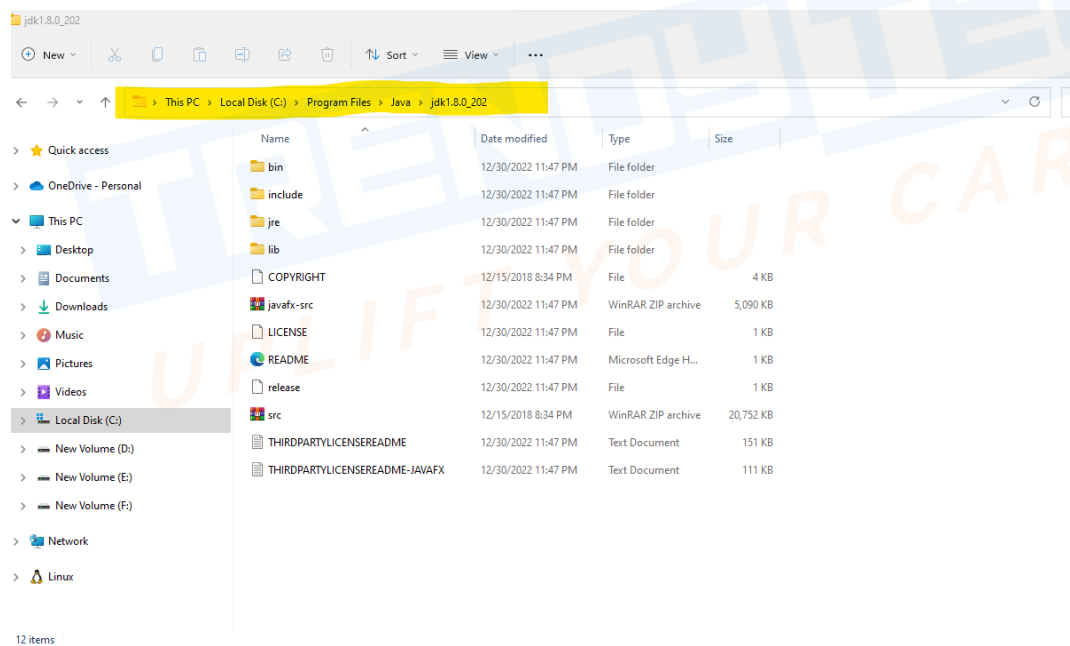
<https://www.youtube.com/watch?v=ClcHrcNXP9g>

In System environment variable, add the path JAVA_HOME (add the path of jdk)

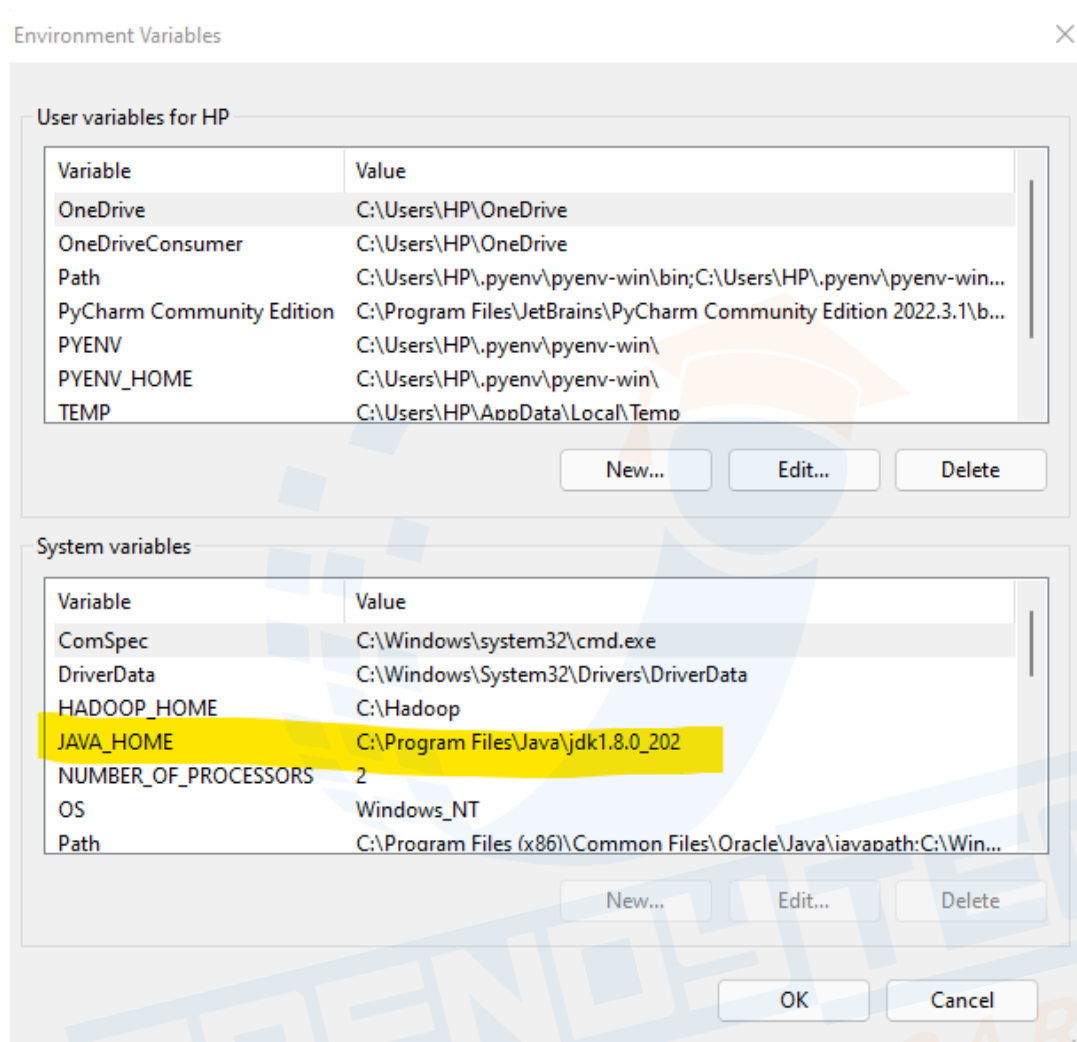
Follow below steps to add the path :

First copy the path of jdk

Note: You can go to “Programs file” and in that “java folder” will be created in which you can see jdk and jre folders. Now open that jdk folder and copy that path.



Now create a JAVA_HOME variable and mention the above path as shown in the below screenshot.



Then click on the path option and then click on edit in the system variable as shown below.

Environment Variables

User variables for HP

Variable	Value
OneDrive	C:\Users\HP\OneDrive
OneDriveConsumer	C:\Users\HP\OneDrive
Path	C:\Users\HP\.pyenv\pyenv-win\bin;C:\Users\HP\.pyenv\pyenv-win...
PyCharm Community Edition	C:\Program Files\JetBrains\PyCharm Community Edition 2022.3.1\b...
PYENV	C:\Users\HP\.pyenv\pyenv-win\
PYENV_HOME	C:\Users\HP\.pyenv\pyenv-win\
TEMP	C:\Users\HP\AppData\Local\Temp

New...

Edit...

Delete

System variables

Variable	Value
JAVA_HOME	C:\Program Files\Java\jdk1.8.0_202
NUMBER_OF_PROCESSORS	2
OS	Windows_NT
Path	C:\Program Files (x86)\Common Files\Oracle\Java\javapath;C:\Win...
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC
PROCESSOR_ARCHITECTURE	AMD64
PROCESSOR_IDENTIFIER	Intel64 Family 6 Model 142 Stepping 9. GenuineIntel

New...

Edit...

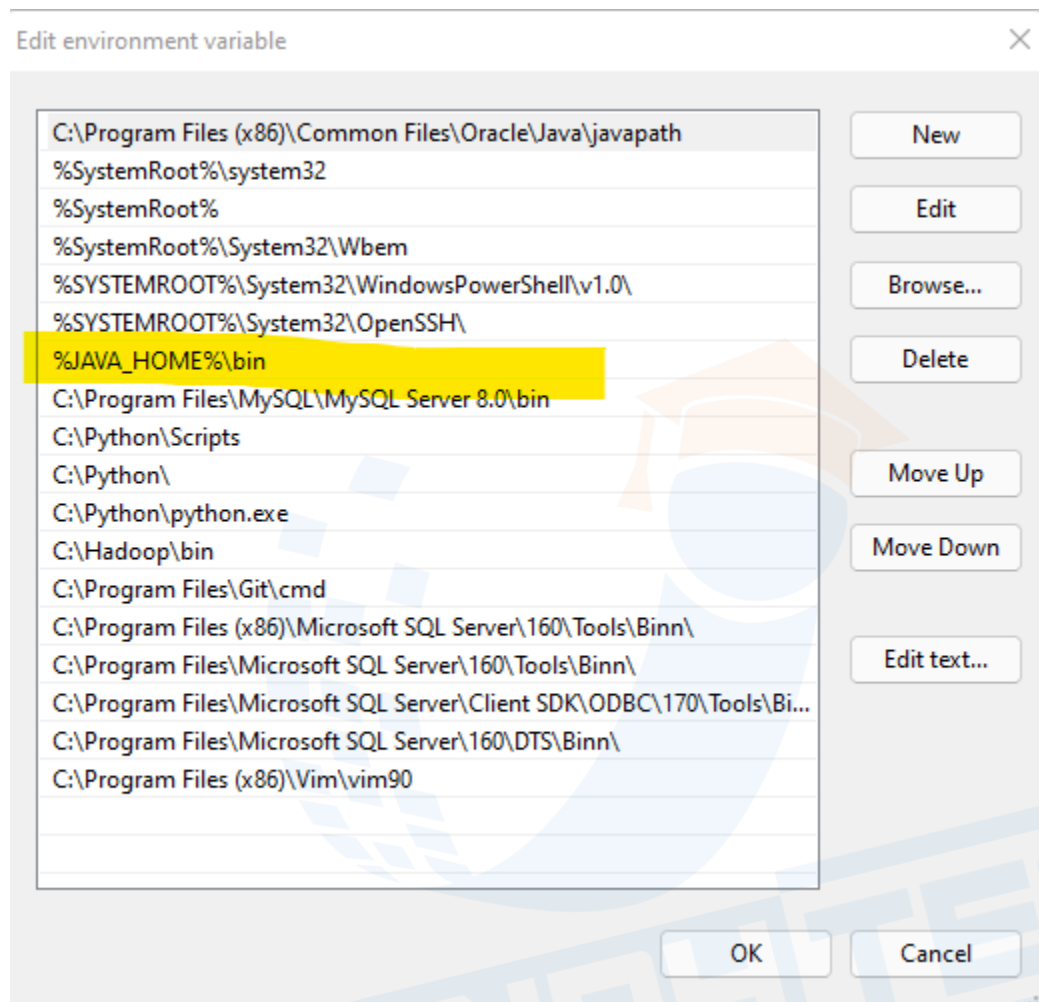
Delete

OK

Cancel

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Now add the %JAVA_HOME%\bin path as shown below



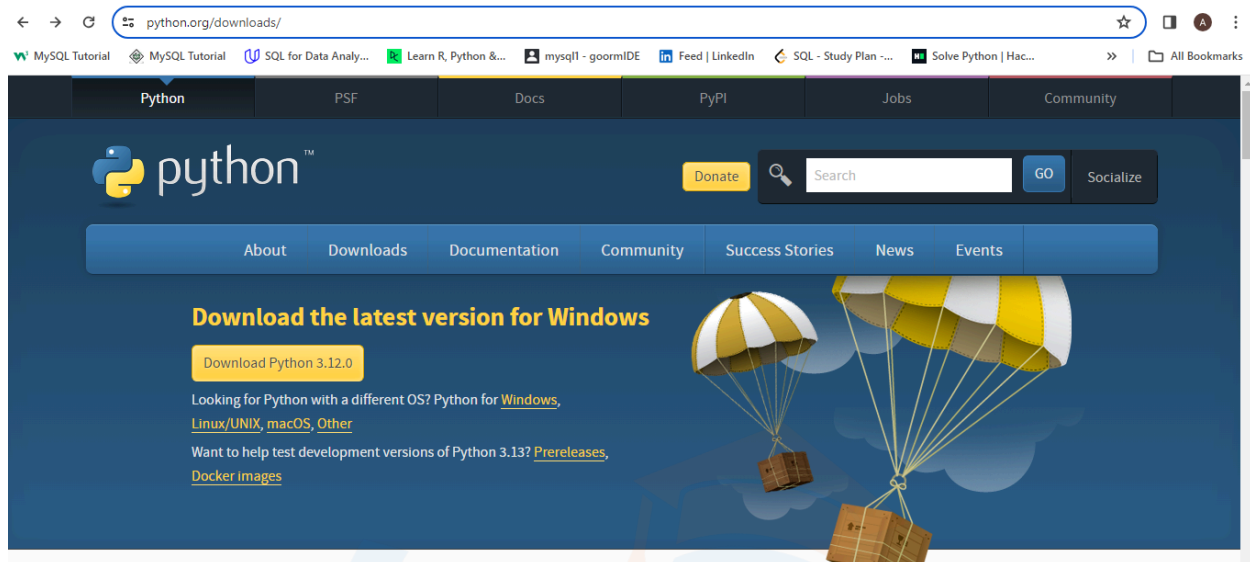
Installing python locally in windows.

=====

Follow below steps to install Python locally.

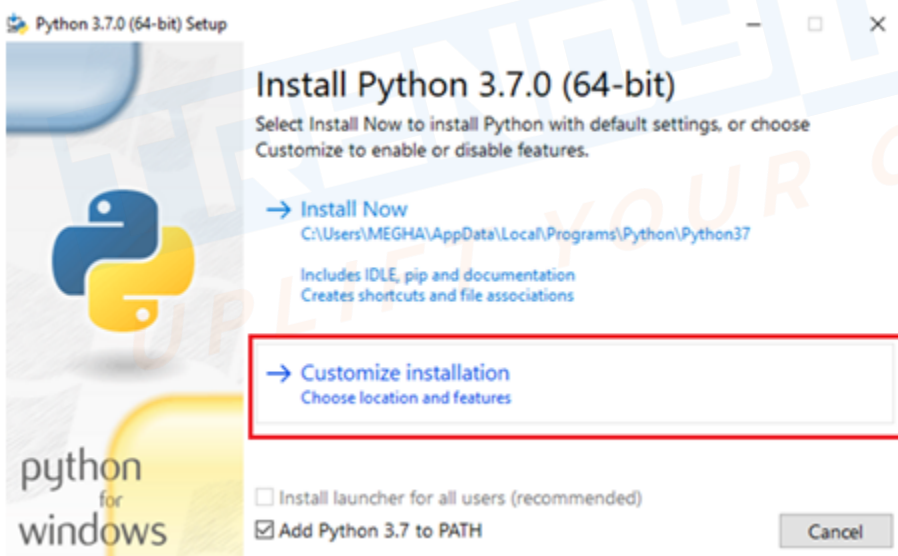
- Download required python version from the below link

<https://www.python.org/downloads/>

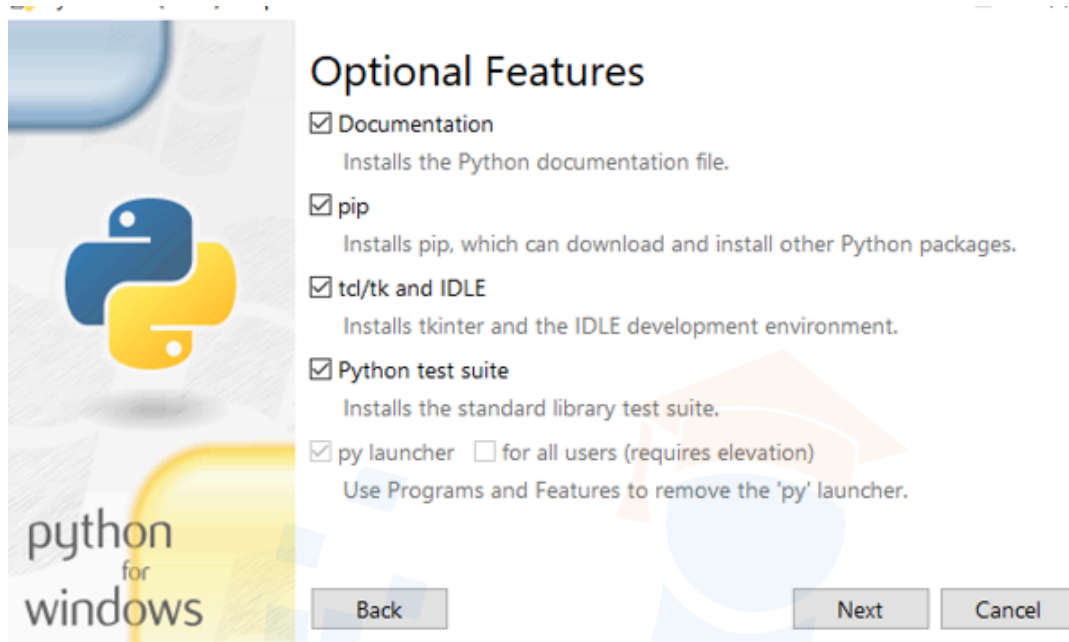


- Select Windows option to check for different versions.
- Download zip file for 64 bit Windows x86-64 executable installer and for 32 bit Windows x86 executable installer
- Customize installation and follow the steps

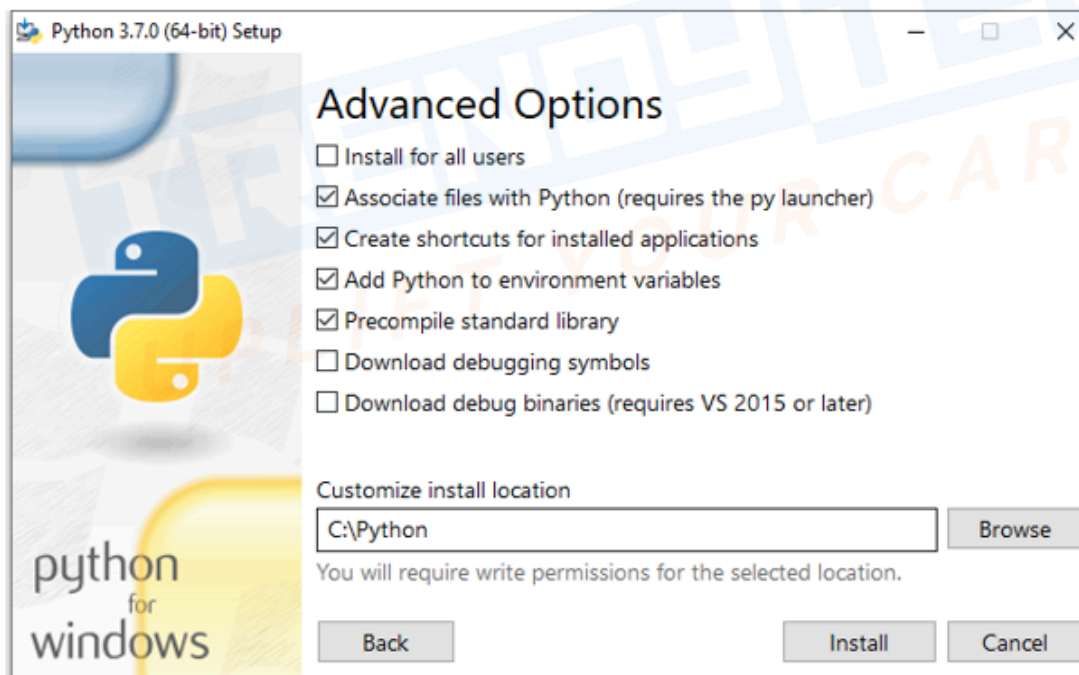
Select option Customize installation and select Add Python 3.7 to path as shown in



Then select the optional feature (refer to the below image).

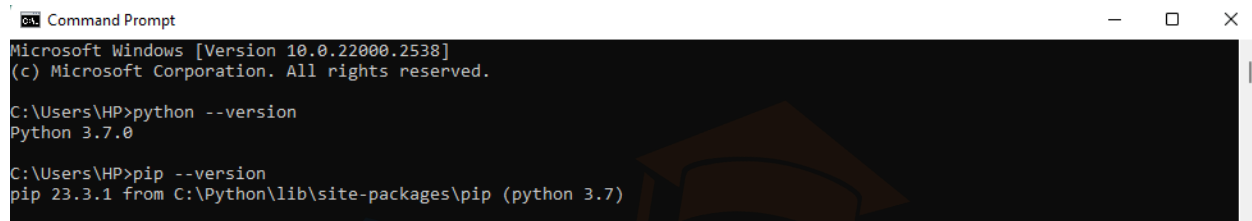


Create Python folder on C drive. Now install python by browsing this path(C:\Python)



Note:

To check version of pip run the below command in CMD:



```
Command Prompt
Microsoft Windows [Version 10.0.22000.2538]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>python --version
Python 3.7.0

C:\Users\HP>pip --version
pip 23.3.1 from C:\Python\lib\site-packages\pip (python 3.7)
```

pip --version or pip3 --version

To upgrade pip use the command:

1. Use the below command to upgrade pip

pip install --upgrade pip or pip3 install --upgrade pip

Or

Replace the path of the python.exe file as per your system in below command and upgrade the pip version locally.

C:\Python\python.exe -m pip install --upgrade pip

To install Pyspark:

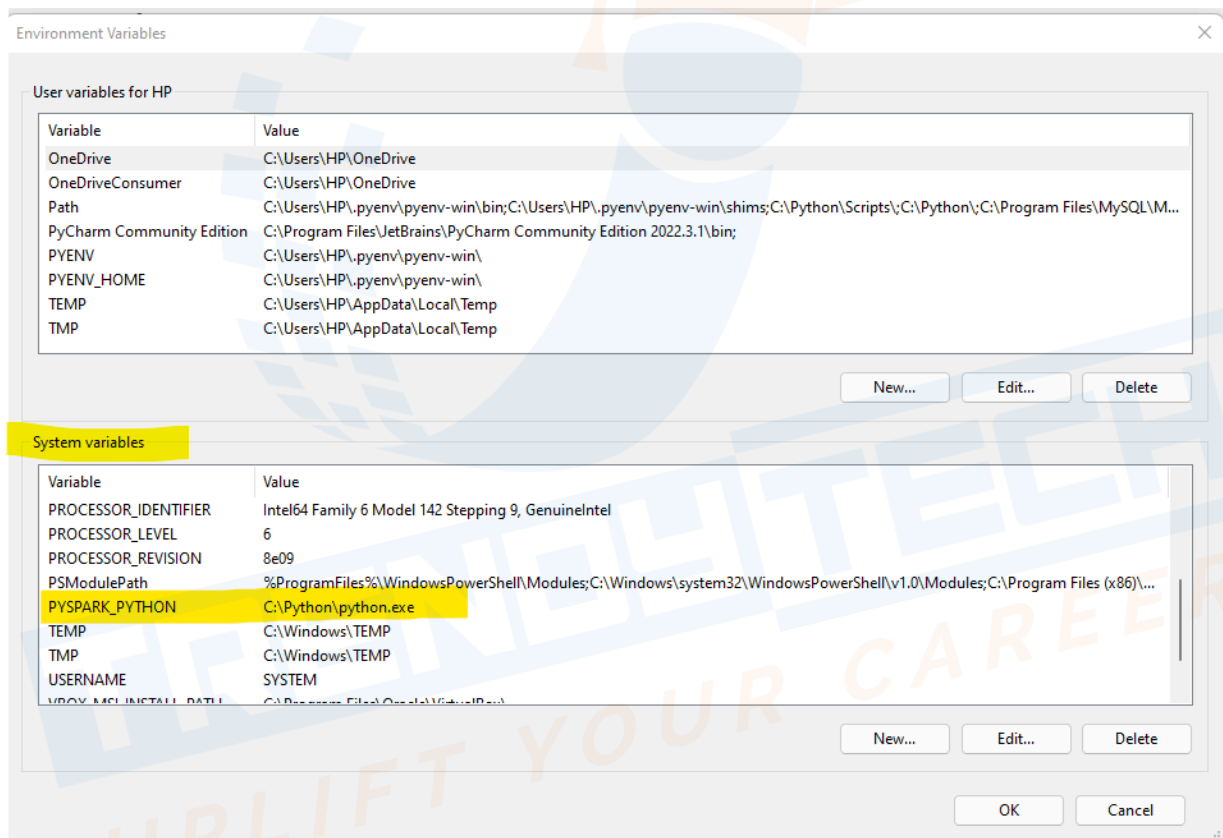
=====

Run the command in command prompt (Local)

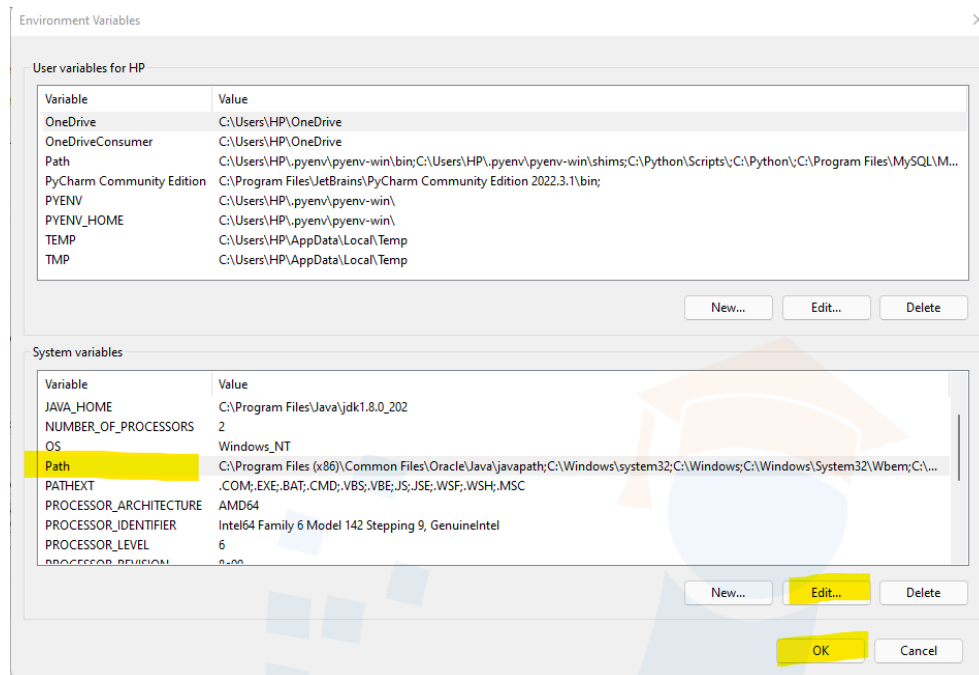
pip install pyspark

Now to set the path PYSPARK_PYTHON follow below process

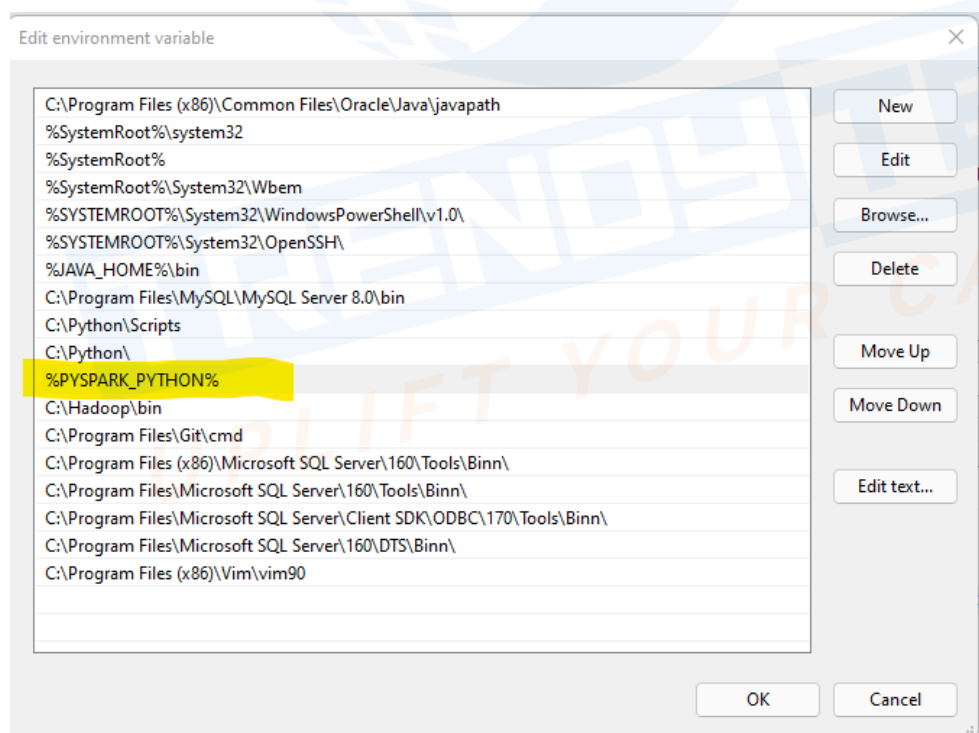
First go to the environment variable, now in System variable click on new and add the variable PYSPARK PYTHON and mention the path of the python.exe file which is which c drive which we installed before refer below screenshot.



Now click on the Path. After that click on edit to add the path of the variable.



Now click on the first option and add the path %PYSPARK_PYTHON% .



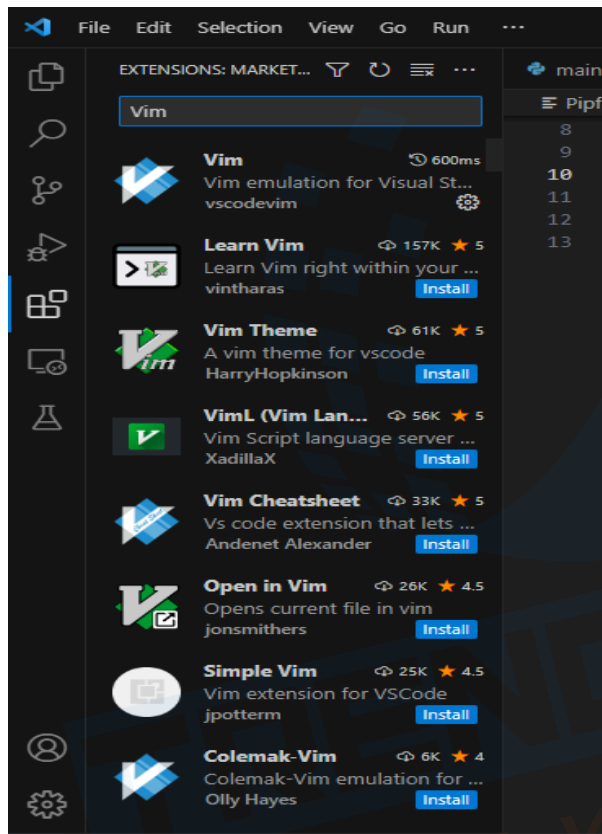
Installing vim in vs code:

Installing vim in vs code.

To do that please follow below step:

Go to setting => Extension => search for vim and install it.

Refer from below image.



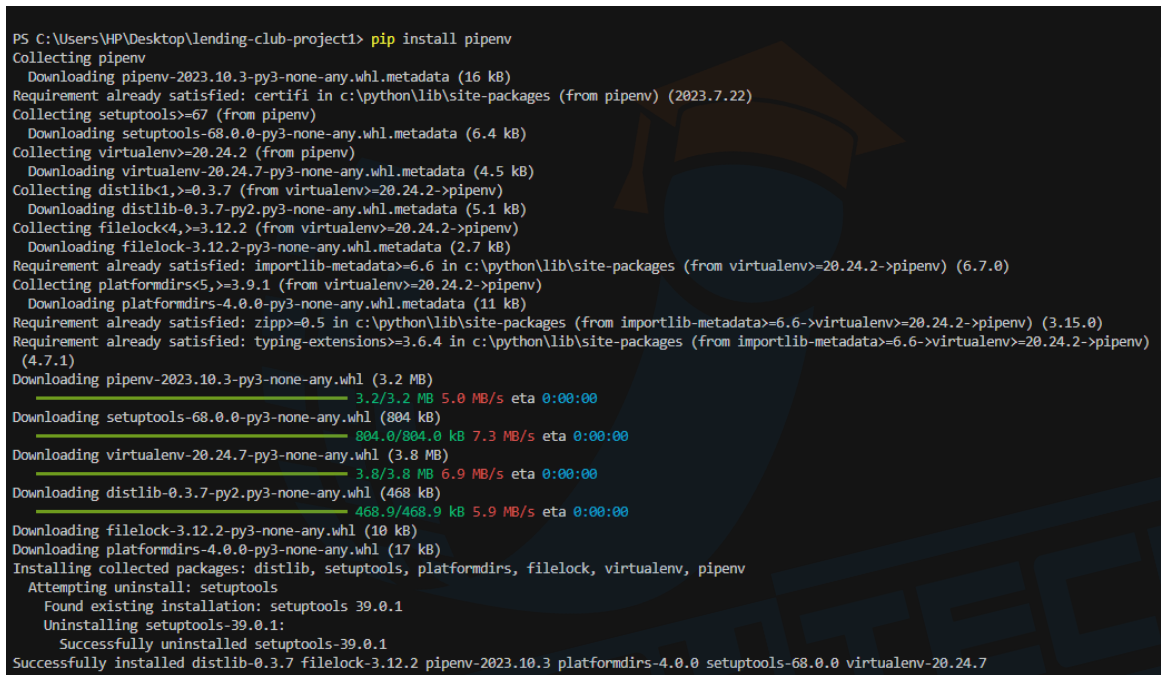
Now use the command -
vim filename (instead of vi filename).

For creating virtual Environment for the project:

First go to the particular project using cd command using your ide (Ex: VS Code)

To install pipenv use below command

pip install pipenv



```
PS C:\Users\HP\Desktop\lending-club-project> pip install pipenv
Collecting pipenv
  Downloading pipenv-2023.10.3-py3-none-any.whl.metadata (16 kB)
Requirement already satisfied: certifi in c:\python\lib\site-packages (from pipenv) (2023.7.22)
Collecting setuptools>=67 (from pipenv)
  Downloading setuptools-68.0.0-py3-none-any.whl.metadata (6.4 kB)
Collecting virtualenv>=20.24.2 (from pipenv)
  Downloading virtualenv-20.24.7-py3-none-any.whl.metadata (4.5 kB)
Collecting distlib<1,>=0.3.7 (from virtualenv>=20.24.2->pipenv)
  Downloading distlib-0.3.7-py2.py3-none-any.whl.metadata (5.1 kB)
Collecting filelock<4,>=3.12.2 (from virtualenv>=20.24.2->pipenv)
  Downloading filelock-3.12.2-py3-none-any.whl.metadata (2.7 kB)
Requirement already satisfied: importlib-metadata>=6.6 in c:\python\lib\site-packages (from virtualenv>=20.24.2->pipenv) (6.7.0)
Collecting platformdirs<5,>=3.9.1 (from virtualenv>=20.24.2->pipenv)
  Downloading platformdirs-4.0.0-py3-none-any.whl.metadata (11 kB)
Requirement already satisfied: zipp>=0.5 in c:\python\lib\site-packages (from importlib-metadata>=6.6->virtualenv>=20.24.2->pipenv) (3.15.0)
Requirement already satisfied: typing-extensions>=3.6.4 in c:\python\lib\site-packages (from importlib-metadata>=6.6->virtualenv>=20.24.2->pipenv) (4.7.1)
Downloading pipenv-2023.10.3-py3-none-any.whl (3.2 MB)
  3.2/3.2 MB 5.0 MB/s eta 0:00:00
Downloading setuptools-68.0.0-py3-none-any.whl (804 kB)
  804.0/804.0 kB 7.3 MB/s eta 0:00:00
Downloading virtualenv-20.24.7-py3-none-any.whl (3.8 MB)
  3.8/3.8 MB 6.9 MB/s eta 0:00:00
Downloading distlib-0.3.7-py2.py3-none-any.whl (468 kB)
  468.9/468.9 kB 5.9 MB/s eta 0:00:00
Downloading filelock-3.12.2-py3-none-any.whl (10 kB)
Downloading platformdirs-4.0.0-py3-none-any.whl (17 kB)
Installing collected packages: distlib, setuptools, platformdirs, filelock, virtualenv, pipenv
Attempting uninstall: setuptools
Found existing installation: setuptools 39.0.1
Uninstalling setuptools-39.0.1:
Successfully uninstalled setuptools-39.0.1
Successfully installed distlib-0.3.7 filelock-3.12.2 pipenv-2023.10.3 platformdirs-4.0.0 setuptools-68.0.0 virtualenv-20.24.7
```

To activate environment use the command:

pipenv shell

To exit the virtual environment:

exit

To remove virtual environment:

pipenv -rm

Without activating environment how to run the python

pipenv run python

To exit => exit()

To install pytest in dev run the command:

pipenv install pytest --dev

To uninstall pytest

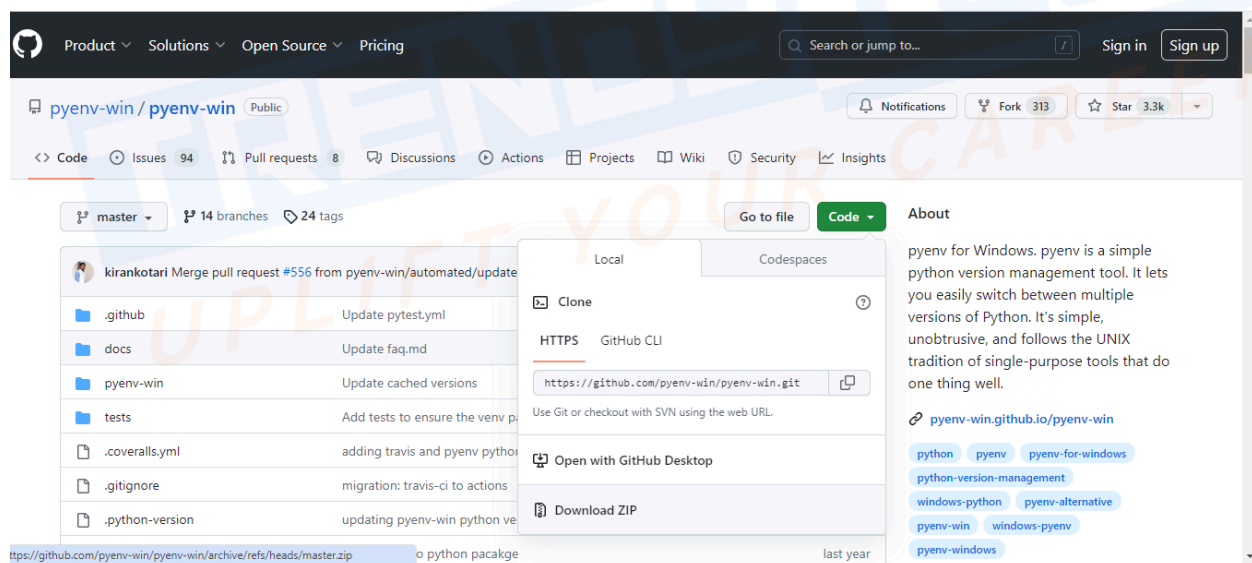
pipenv uninstall pytest

Installing Pyenv in your system(Local):

Please check the below link to download the pyenv

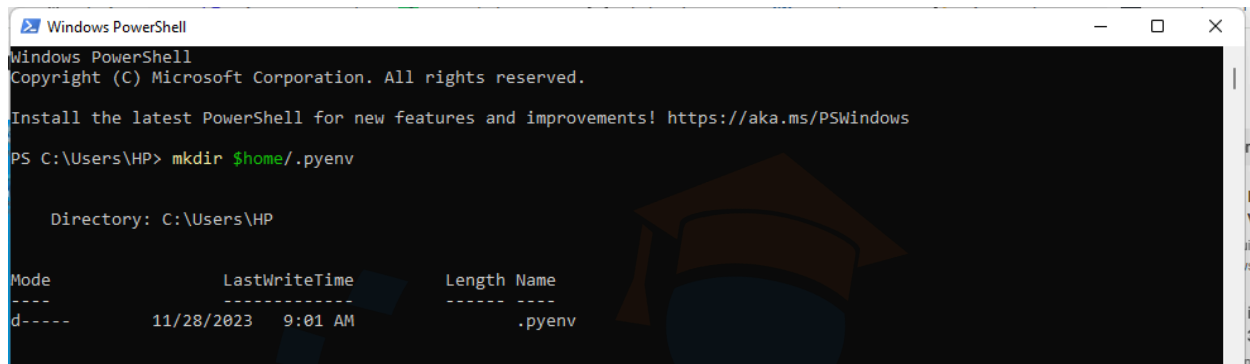
<https://github.com/pyenv-win/pyenv-win>

Now click on code and download the zip file



Go to powershell and run the following command to create pyenv directory in user directory

mkdir \$home/.pyenv



```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\HP> mkdir $home/.pyenv

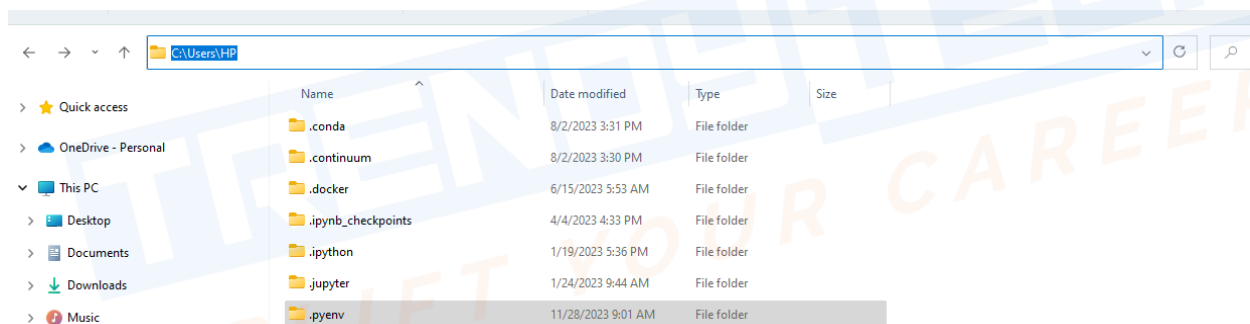
Directory: C:\Users\HP

Mode                LastWriteTime         Length Name
----                -
d-----         11/28/2023   9:01 AM             .pyenv
```

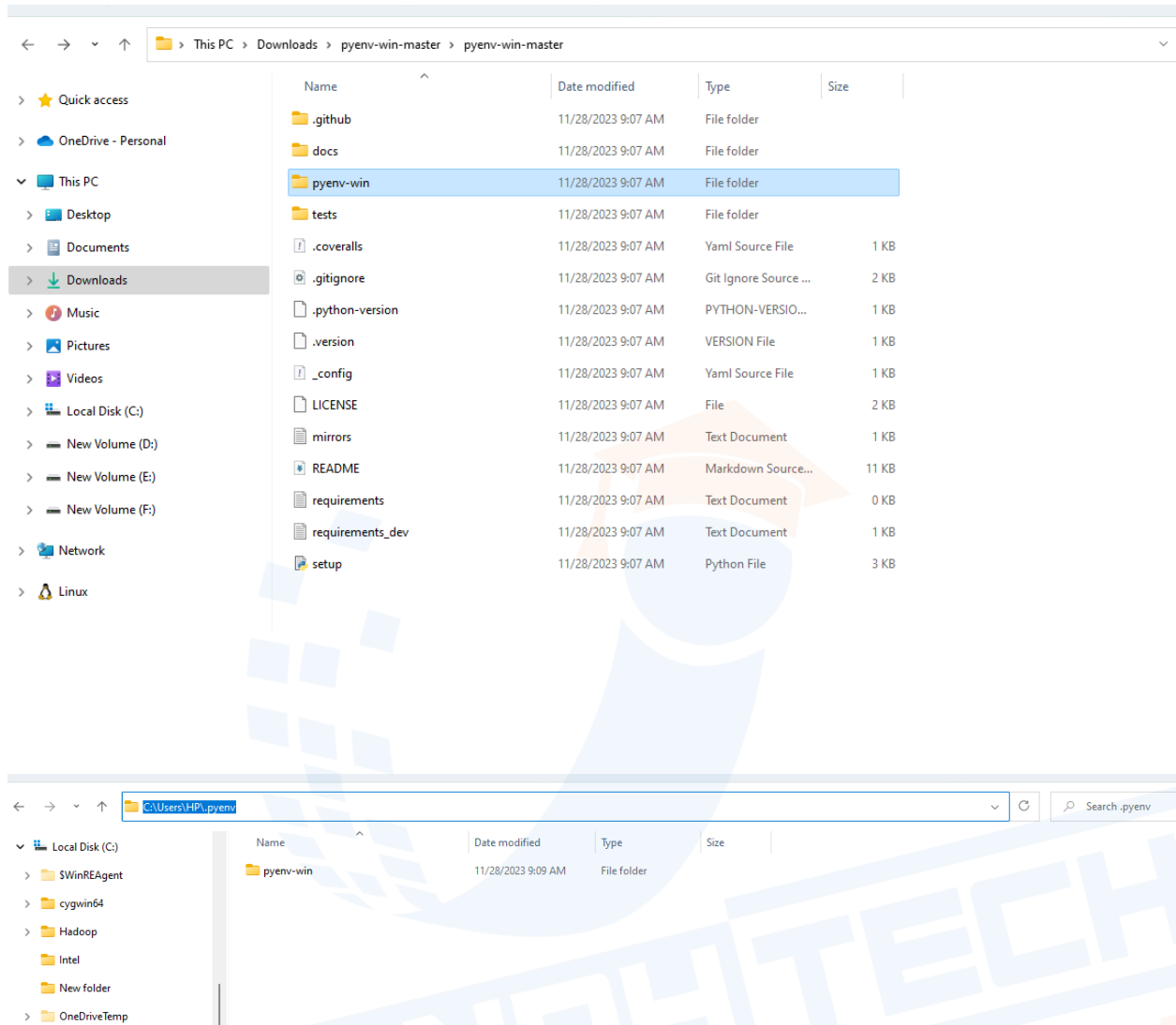
Now go to

C => user => <username> and you can see .pyenv folder created.

For below ss username is HP check for your system using above this



And copy files pyenv-win from the extracted files to .pyenv folder refer attached screenshots



Set the environment variables PYENV and PYENV_HOME that point to the installation folder:

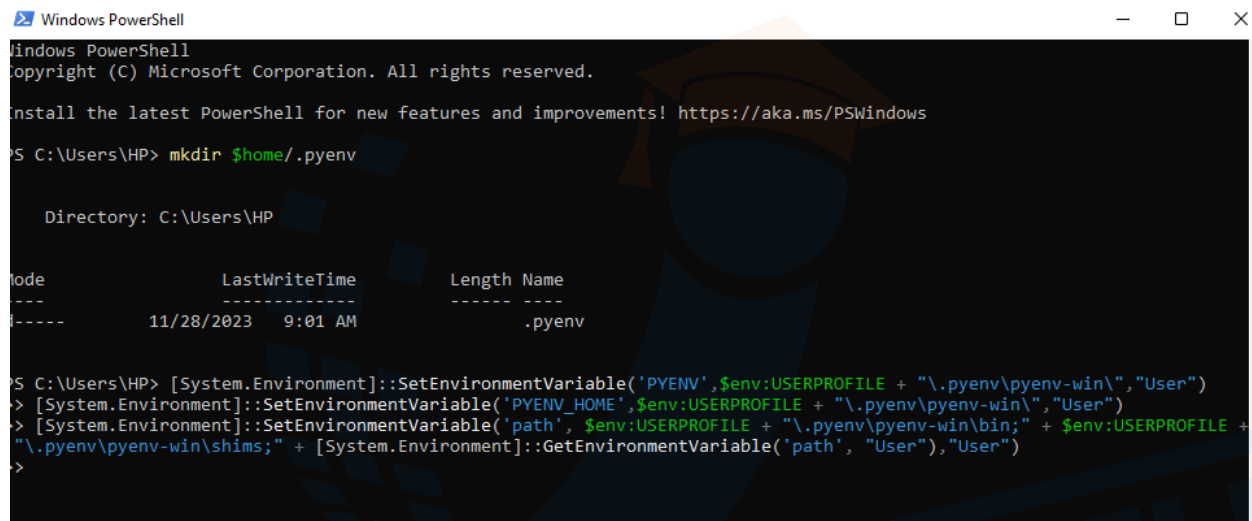
```
[System.Environment]::SetEnvironmentVariable('PYENV',$env:USERPROFILE +  
"\.pyenv\pyenv-win\","User")
```

```
[System.Environment]::SetEnvironmentVariable('PYENV_HOME',$env:USERPR  
OFILE + "\.pyenv\pyenv-win\","User")
```

Add the bin folder to the PATH variable. Such that pyenv can be found when using the command line.

```
[System.Environment]::SetEnvironmentVariable('path', $env:USERPROFILE +  
"\.pyenv\pyenv-win\bin;" + $env:USERPROFILE + "\.pyenv\pyenv-win\shims;" +  
[System.Environment]::GetEnvironmentVariable('path', "User"),"User")
```

Refer the screenshot



```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\HP> mkdir $home/.pyenv

Directory: C:\Users\HP

Mode                LastWriteTime         Length Name
----                -
d-----          11/28/2023   9:01 AM                .pyenv

PS C:\Users\HP> [System.Environment]::SetEnvironmentVariable('PYENV',$env:USERPROFILE + "\.pyenv\pyenv-win\","User")
> [System.Environment]::SetEnvironmentVariable('PYENV_HOME',$env:USERPROFILE + "\.pyenv\pyenv-win\","User")
> [System.Environment]::SetEnvironmentVariable('path', $env:USERPROFILE + "\.pyenv\pyenv-win\bin;" + $env:USERPROFILE +
"\.pyenv\pyenv-win\shims;" + [System.Environment]::GetEnvironmentVariable('path', "User"),"User")
>
```

Close the currently open powershell and If you haven't enabled script execution yet, start a new PowerShell with admin privileges by right-clicking on the PowerShell icon in the start menu and choose Run as administrator. Otherwise, skip this step.

Enter the following command into the PowerShell to enable the execution of scripts:

Set-Execution-Policy unrestricted

pyenv install --list

pyenv install 3.8.12