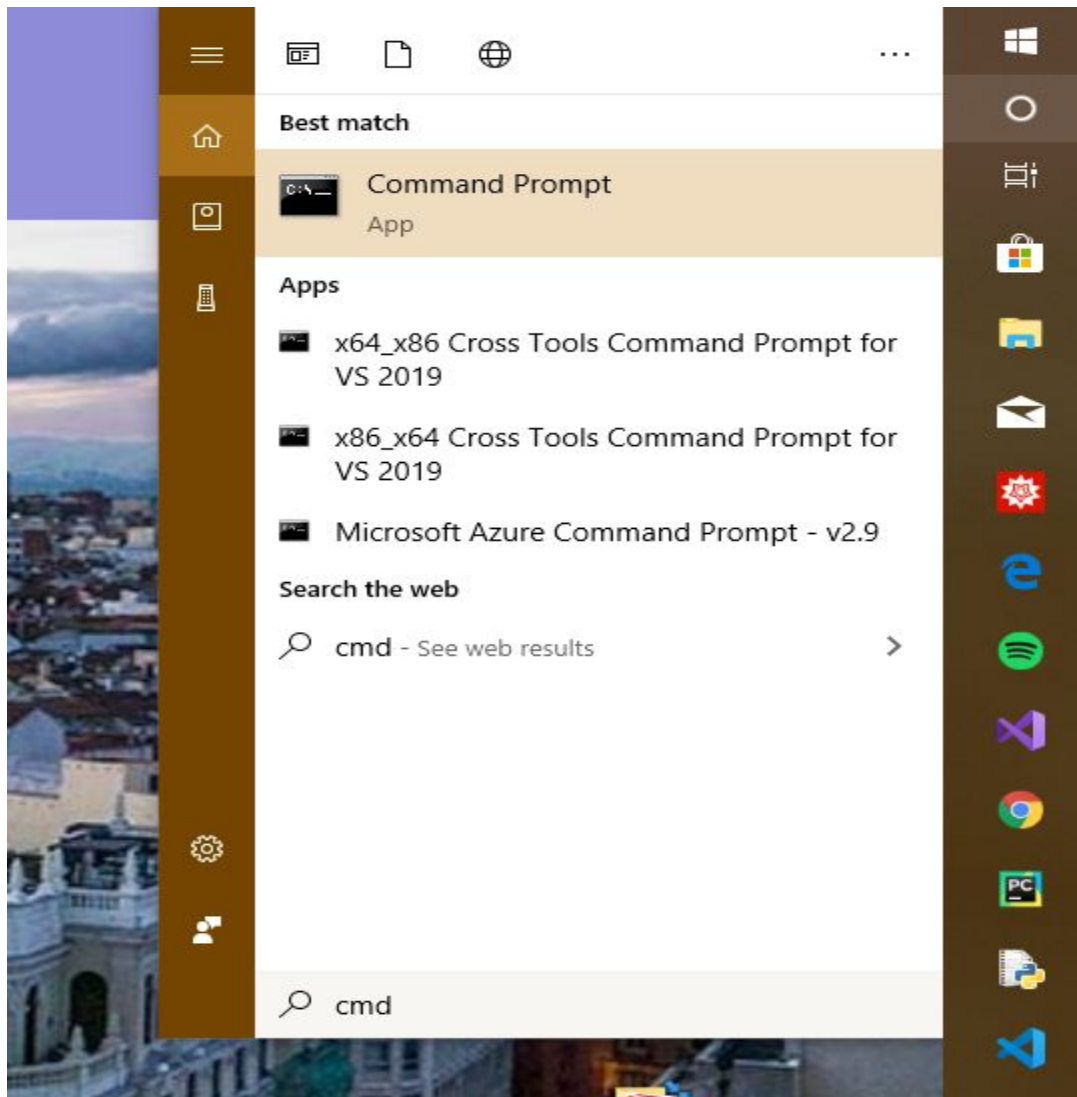


# A Reference Guide On Creating A Python Virtual Environment and Activating it using Visual Studio Code (Windows )

## Step 1

Open your command prompt

- Type **cmd** in your search box



CA. Command Prompt

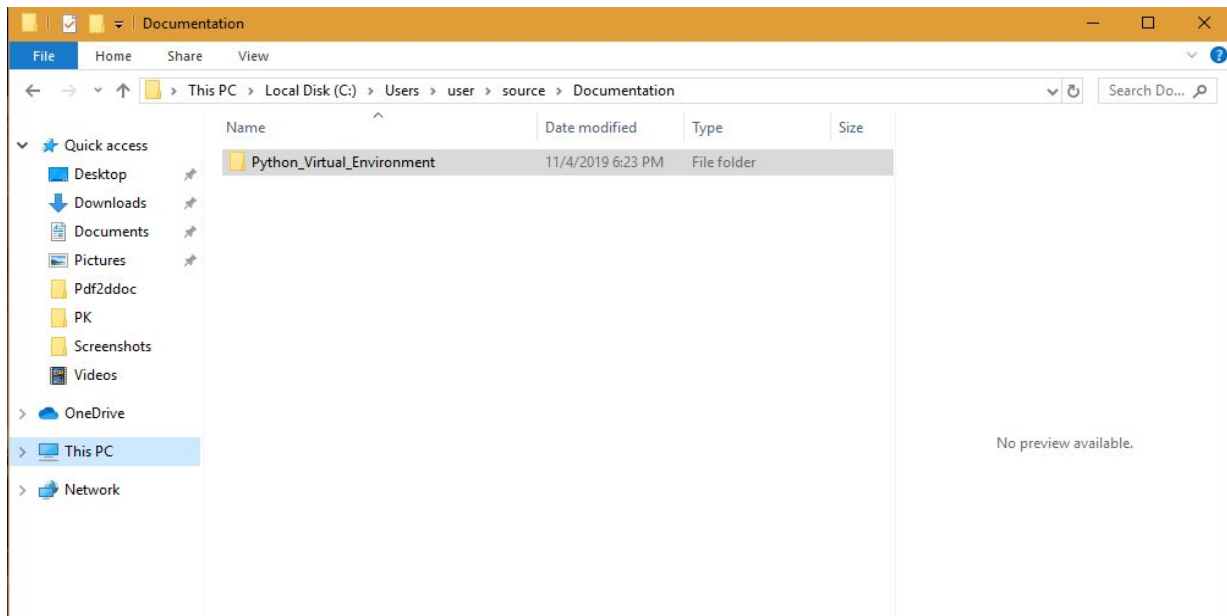
Microsoft Windows [Version 10.0.17134.1006]  
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\user>

## Step 2

Navigate to the directory of your Project folder

- Here my Project folder is ***Python\_Virtual\_Environment***
- My Project folder directory: ***C:\Users\user\source\Documentation***



- Use the ***cd*** command to navigate into the Project folder directory on the command prompt.

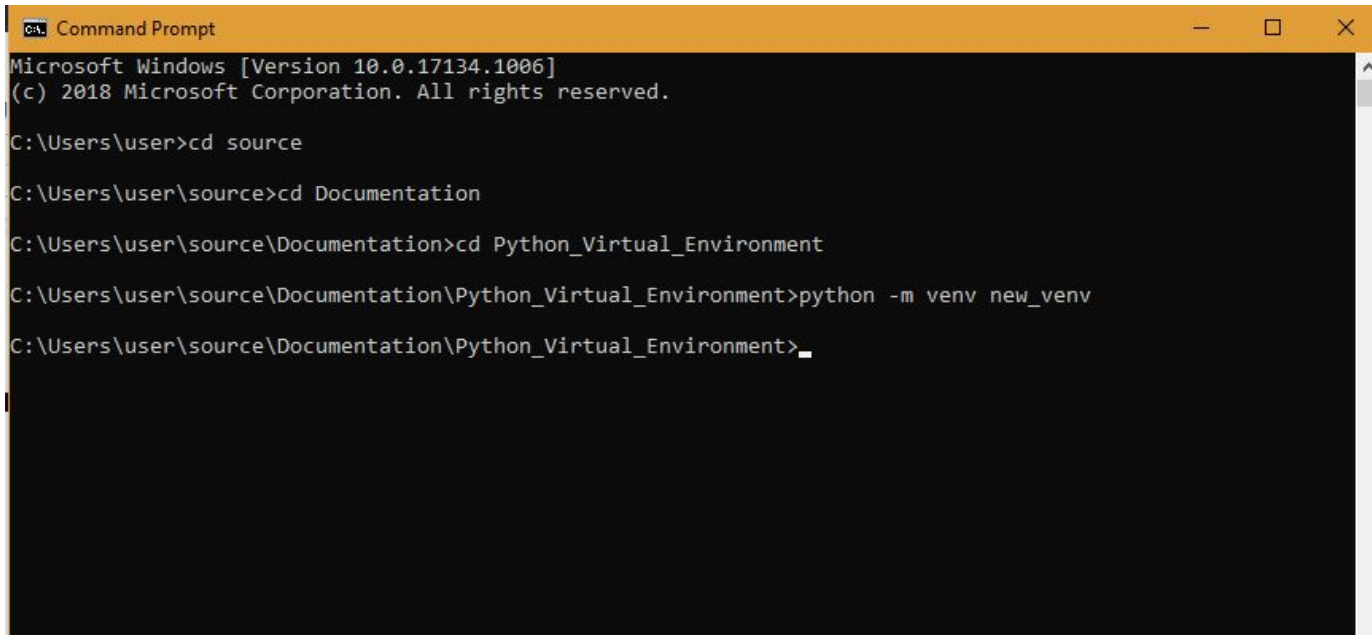
```
Command Prompt
Microsoft Windows [Version 10.0.17134.1006]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\user>cd source
C:\Users\user\source>cd Documentation
C:\Users\user\source\Documentation>cd Python_Virtual_Environment
C:\Users\user\source\Documentation\Python_Virtual_Environment>_
```

## Step 3

### Create a virtual Environment

- Run the command:
  - ***python -m venv replace\_with\_what\_you\_want\_to\_name\_your\_virtual\_environment***
  - My Implementation: ***python -m venv new\_venv***



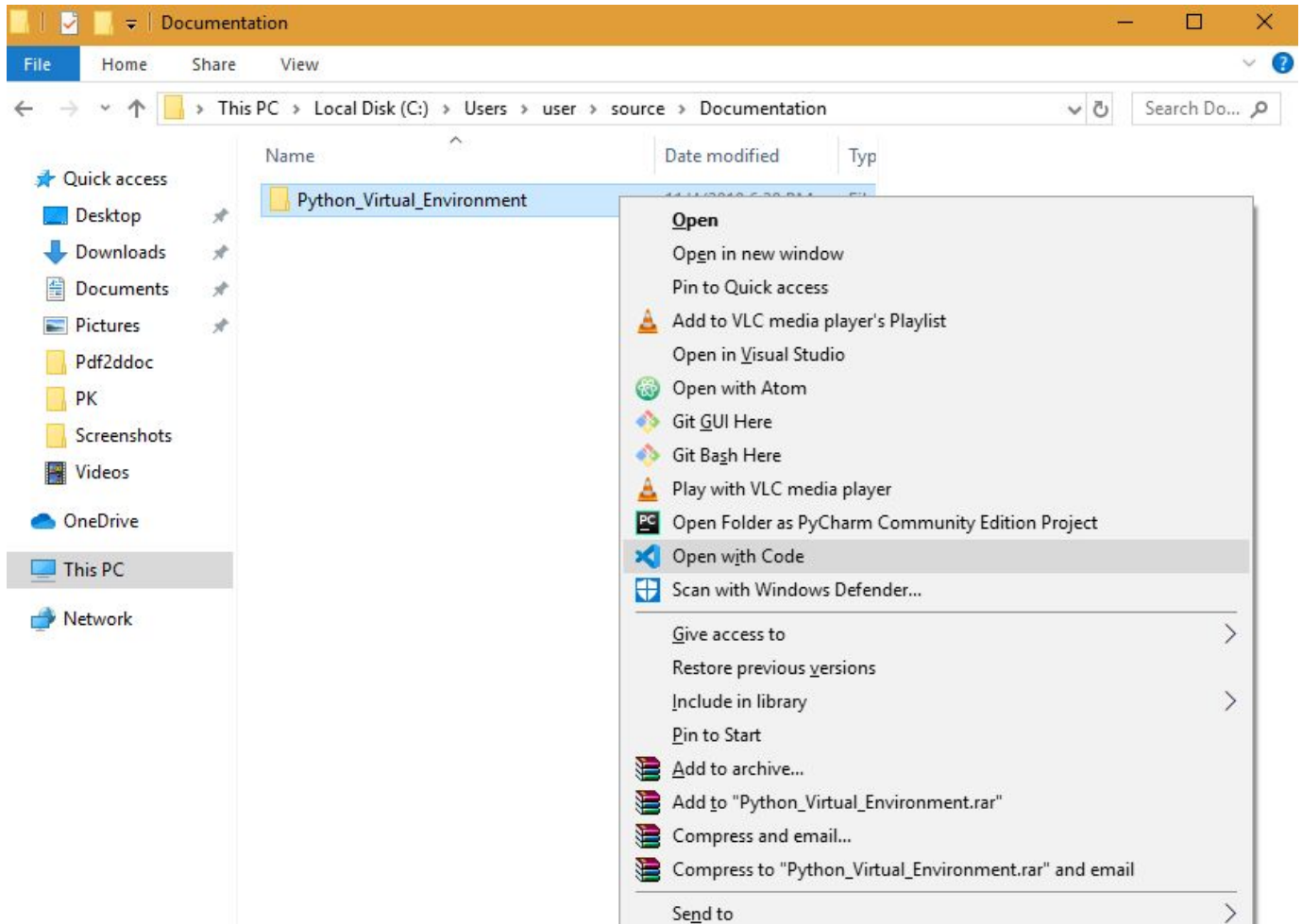
```
Command Prompt
Microsoft Windows [Version 10.0.17134.1006]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\user>cd source
C:\Users\user\source>cd Documentation
C:\Users\user\source\Documentation>cd Python_Virtual_Environment
C:\Users\user\source\Documentation\Python_Virtual_Environment>python -m venv new_venv
C:\Users\user\source\Documentation\Python_Virtual_Environment>_
```

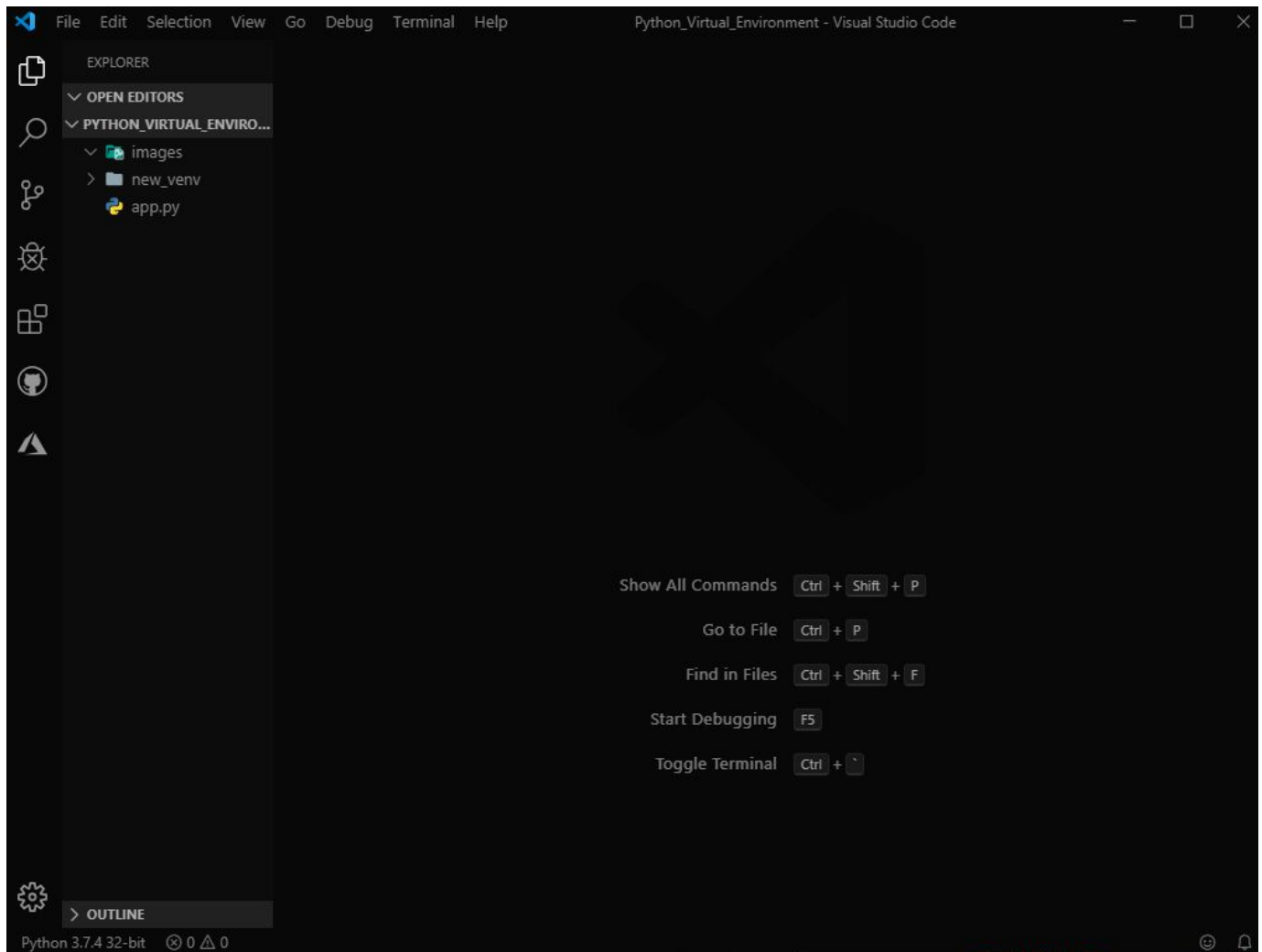
## Step 4

### Activating the Virtual Environment with Visual Studio Code

- Right click on your project Folder
- Select ***open with Code*** option



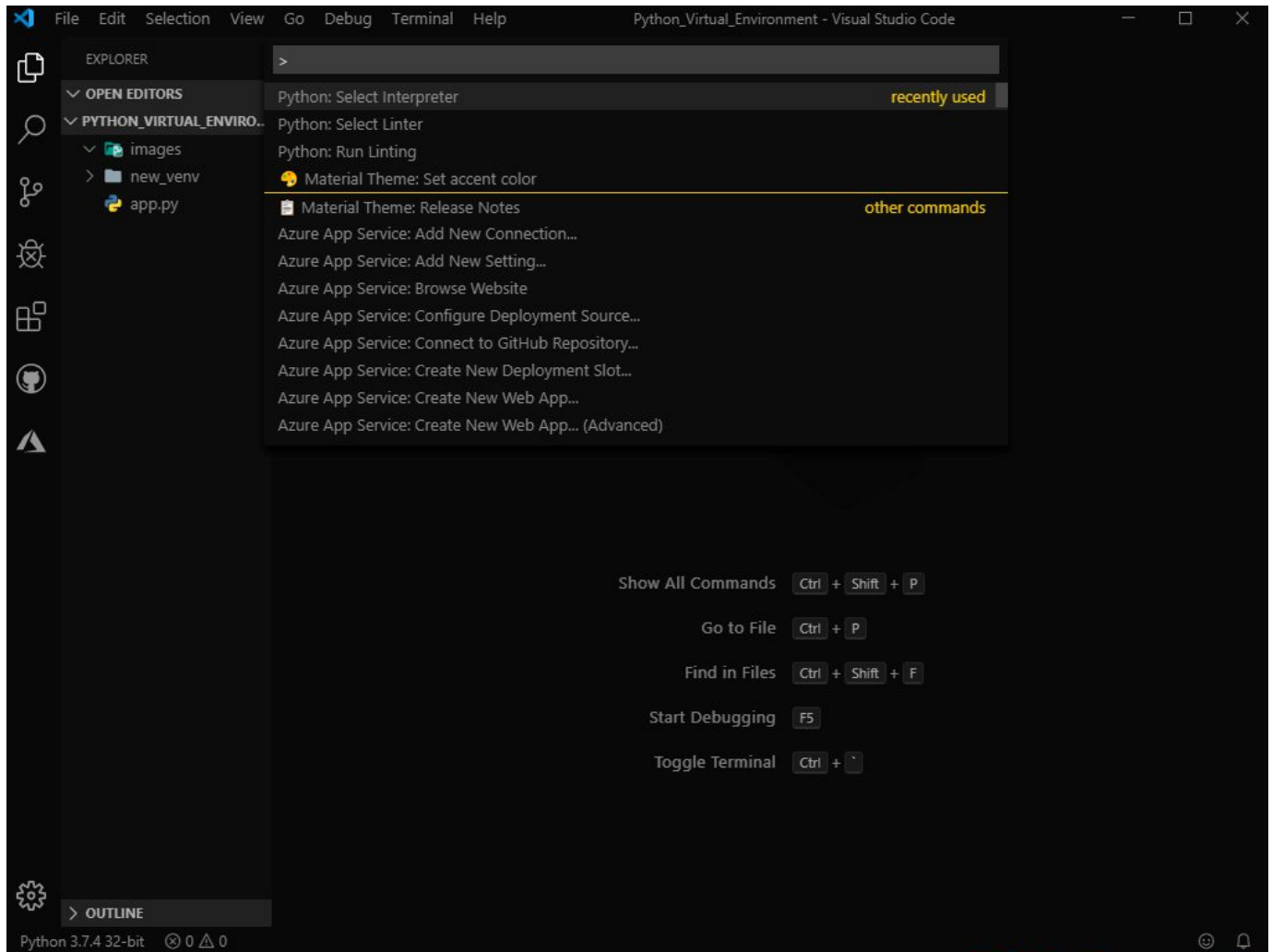
- Your project will be displayed on Visual Studio Code, a preview is shown below.



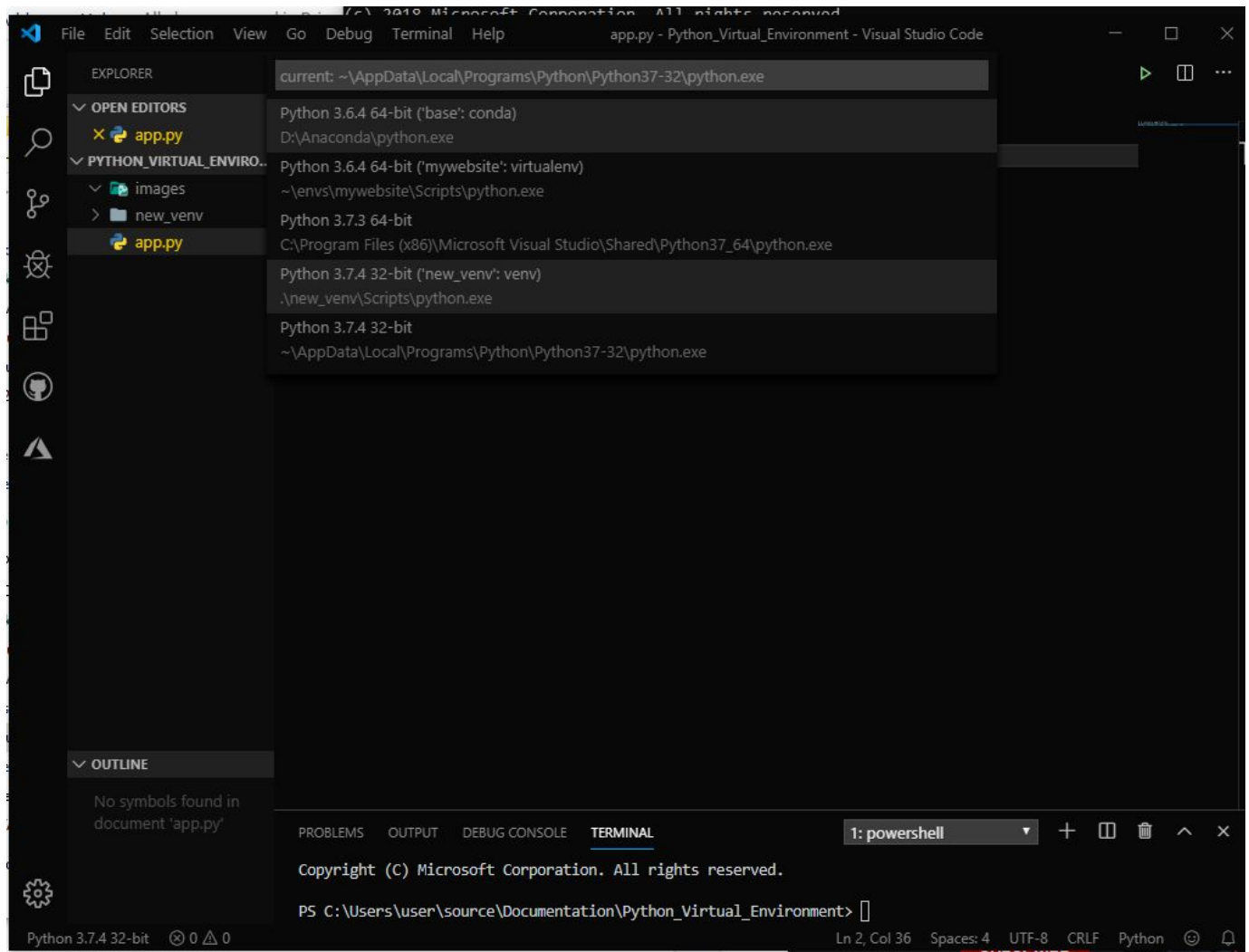
- Observe statement ***Python 3.7.4 32-bit*** as displayed below. This shows no virtual environment has been activated yet.



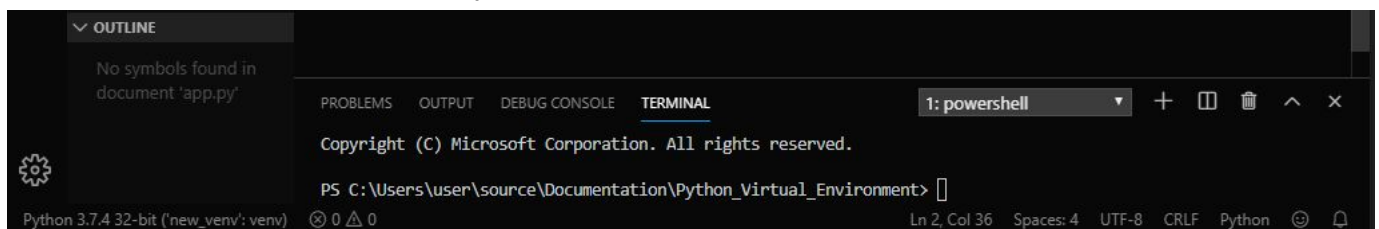
- Type **ctrl + shift + p** on visual studio code
- A list of available python interpreter and your newly created virtual environment will be displayed



- Select your your named virtual environment, in my case '**new\_venv**'



- Visual studio automatically activates the virtual environment on Selection
- The can be observed in statement Python 3.7.4 32-bit ('new\_venv: venv')



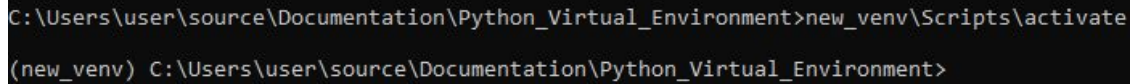
- Congratulations, you now have an **Active Python Virtual environment** for your Python projects



## The Extra Knowledge

Activating the Virtual environment directly from the command prompt

- Run the command in your terminal
- name\_of\_your\_virtual\_environment\Scripts\activate
- My Implementation: **new\_venv\Scripts\activate**

A terminal window with a black background and white text. The first line shows the command 'C:\Users\user\source\Documentation\Python\_Virtual\_Environment>new\_venv\Scripts\activate'. The second line shows the prompt '(new\_venv) C:\Users\user\source\Documentation\Python\_Virtual\_Environment>'.

```
C:\Users\user\source\Documentation\Python_Virtual_Environment>new_venv\Scripts\activate
(new_venv) C:\Users\user\source\Documentation\Python_Virtual_Environment>
```

- The name of your virtual environment should be displayed in brackets at the start of a new command in your terminal. This shows the virtual environment has been activated.

*Star the repository I uploaded the document to if you found it helpful*

*Link to Repo:*

<https://github.com/AB-Yusuf/Python-Virtual-Environment>

*You have feedbacks?*

*Connect with me*

*Github:* <https://github.com/AB-Yusuf>

*Twitter:* <https://twitter.com/thaTechMaestro>

*Linkedin:*

<https://www.linkedin.com/in/abubakar-yusuf-495883115/>

*Cheers!!!*