

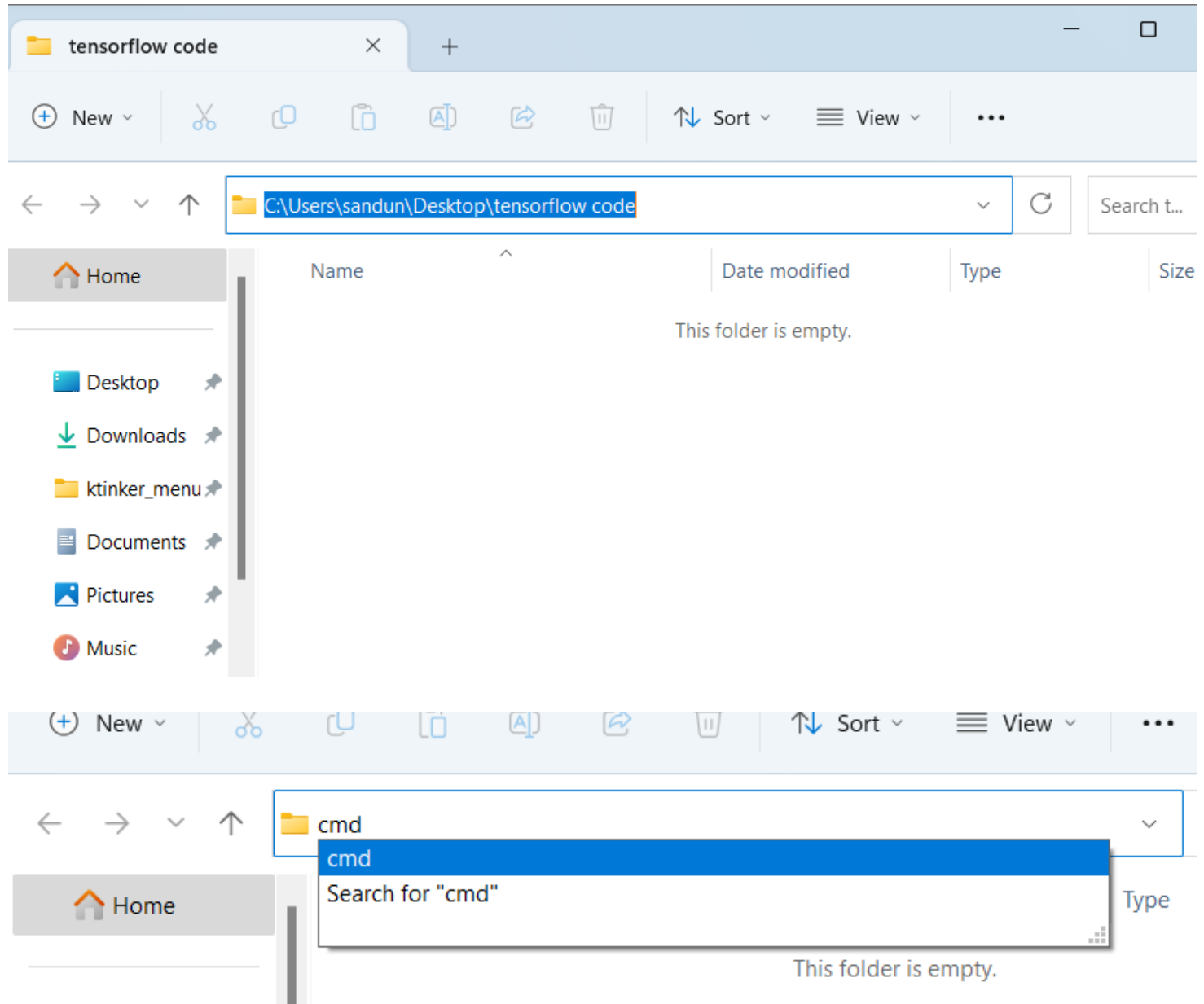
# Virtual Environments and Jupyter Notebook

27-08-2023 11:22

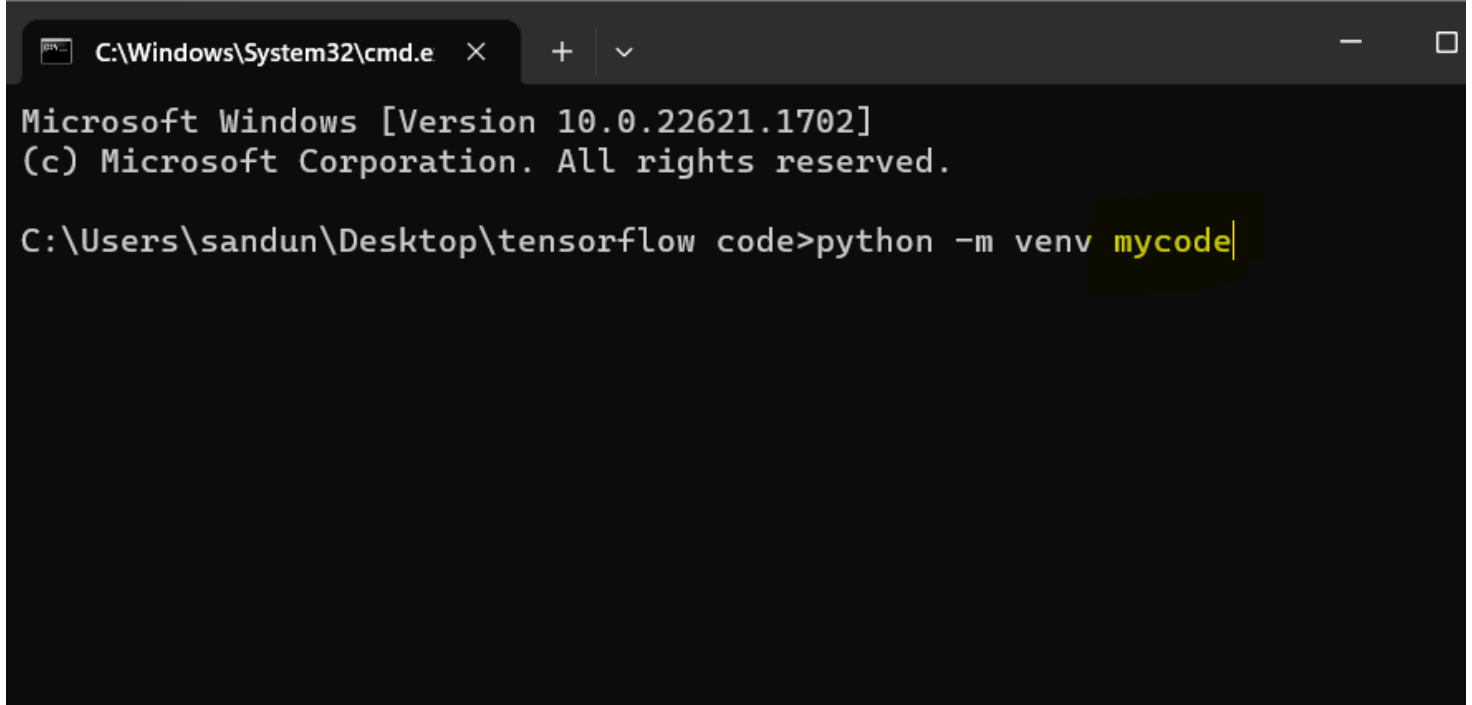
written by sandun sampath vitharana

## Steps

- open cmd in the desired folder



```
python -m venv mycode
```



```
C:\Windows\System32\cmd.e x + v

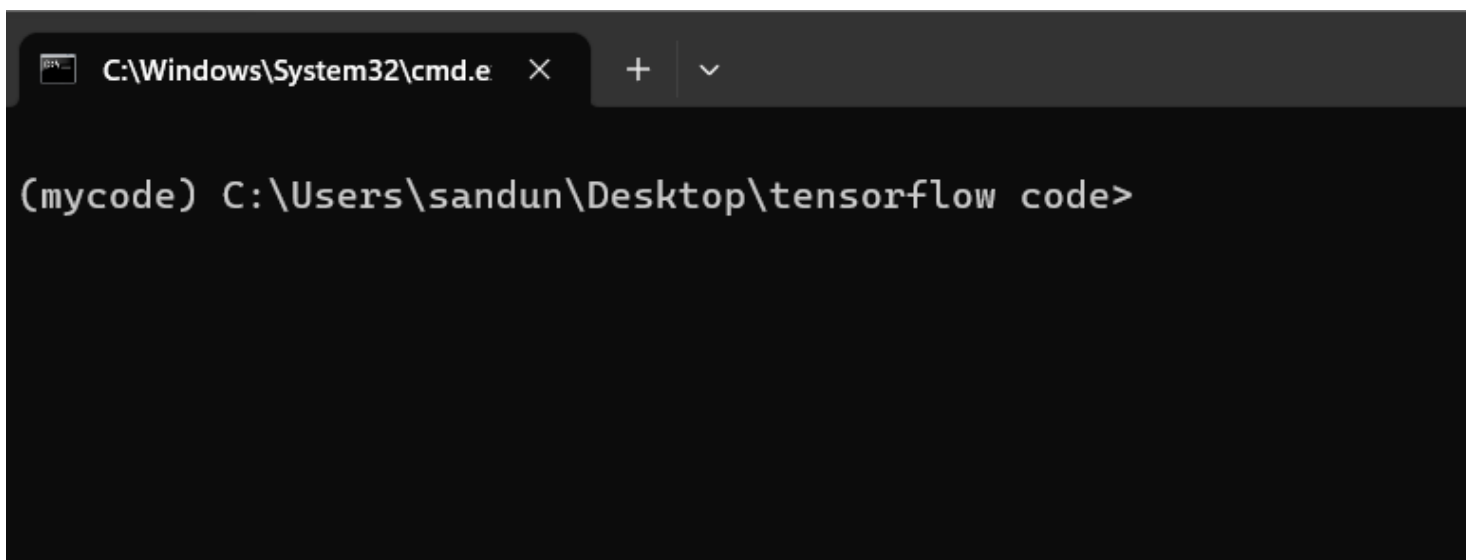
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sandun\Desktop\tensorflow code>python -m venv mycode|
```

here **mycode** is the name of the virtual environment

next we need to step into the virtual environment

```
.\mycode\Scripts\activate
```



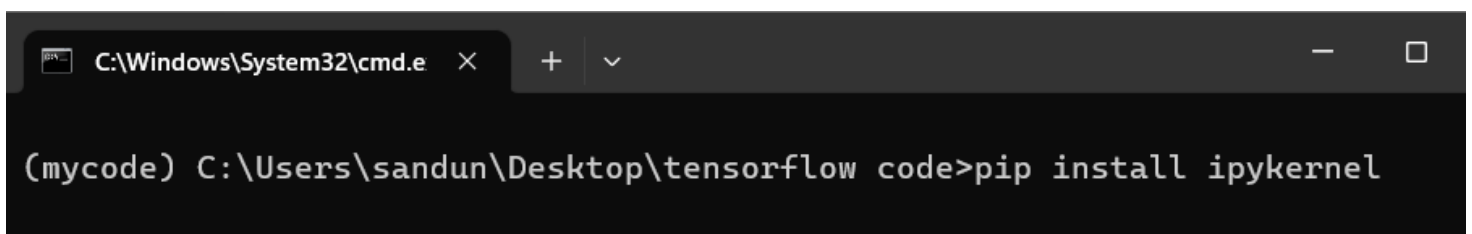
```
C:\Windows\System32\cmd.e x + v

(mycode) C:\Users\sandun\Desktop\tensorflow code>
```

Here we stepped in to the virtual environment

Next we need to install a package that will make this virtual environment show up in the jupyter notebook as a another kernel named **mycode** in this case

```
pip install ipykernel
```



```
C:\Windows\System32\cmd.e x + v

(mycode) C:\Users\sandun\Desktop\tensorflow code>pip install ipykernel
```

finished installing the package

```
Using cached executing-1.2.0-py2.py3-none-any.whl (24 kB)
Collecting asttokens>=2.1.0
Using cached asttokens-2.2.1-py2.py3-none-any.whl (26 kB)
Installing collected packages: wcwidth, pywin32, pure-eval, pickleshare, ex
cuting, backcall, traitlets, tornado, six, pyzmq, pygments, psutil, prompt-
oolkit, platformdirs, parso, packaging, nest-asyncio, decorator, debugpy, c
lorama, python-dateutil, matplotlib-inline, jupyter-core, jedi, comm, astto
ens, stack-data, jupyter-client, ipython, ipykernel
Successfully installed asttokens-2.2.1 backcall-0.2.0 colorama-0.4.6 comm-0
1.4 debugpy-1.6.7.post1 decorator-5.1.1 executing-1.2.0 ipykernel-6.25.1 ip
thon-8.14.0 jedi-0.19.0 jupyter-client-8.3.0 jupyter-core-5.3.1 matplotlib-
nline-0.1.6 nest-asyncio-1.5.7 packaging-23.1 parso-0.8.3 pickleshare-0.7.5
platformdirs-3.10.0 prompt-toolkit-3.0.39 psutil-5.9.5 pure-eval-0.2.2 pygm
nts-2.16.1 python-dateutil-2.8.2 pywin32-306 pyzmq-25.1.1 six-1.16.0 stack-
ata-0.6.2 tornado-6.3.3 traitlets-5.9.0 wcwidth-0.2.6

[notice] A new release of pip available: 22.2.2 -> 23.2.1
[notice] To update, run: python.exe -m pip install --upgrade pip

(mycode) C:\Users\sandun\Desktop\tensorflow code>|
```

Next we use this package and add this virtual environment as a kernel for the jupyter notebook

```
python -m ipykernel install --user --name=mycode
```

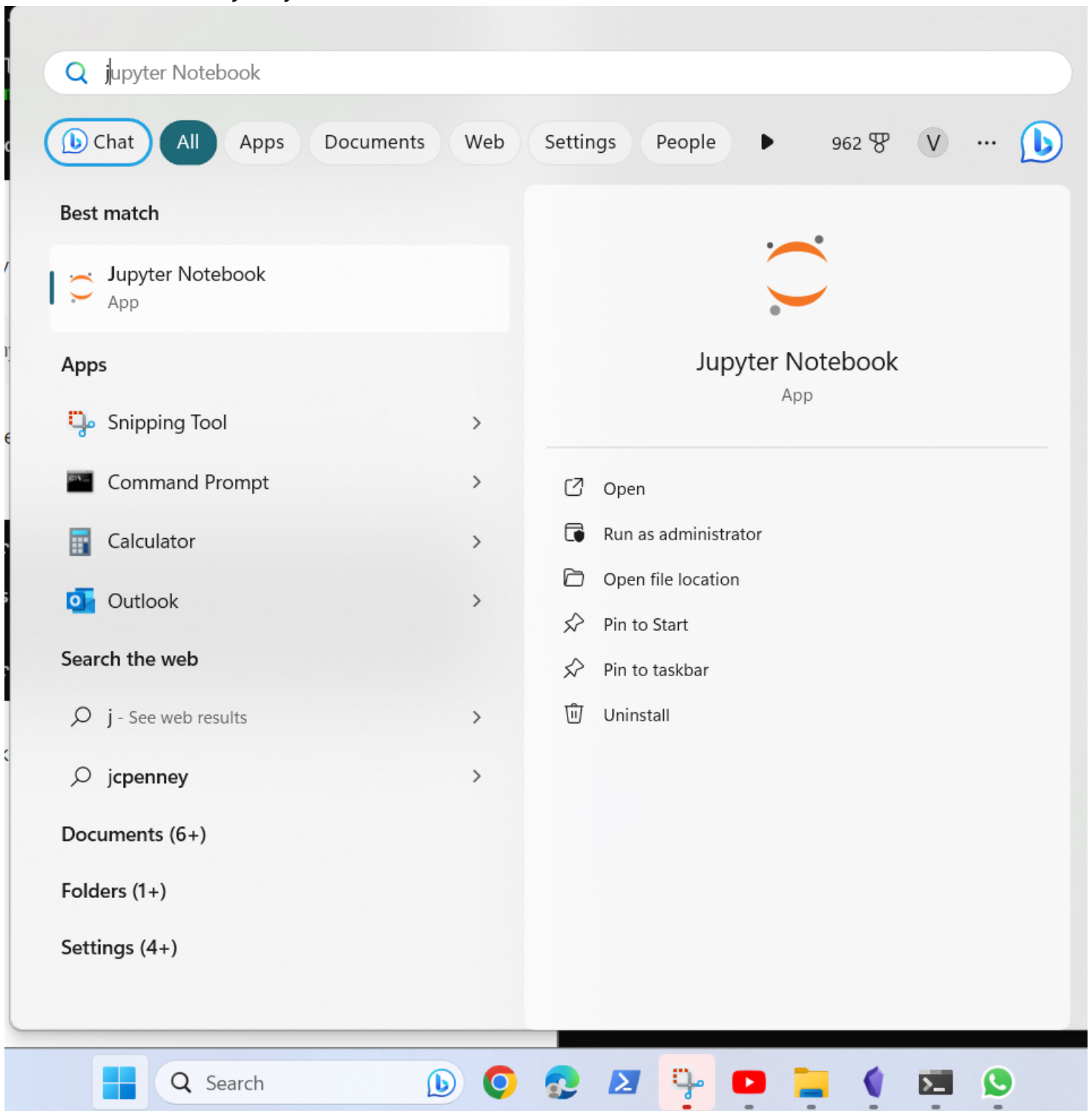
here **mycode** is the name of the virtual environment that gets added as a kernel in jupyter notebook

```
(mycode) C:\Users\sandun\Desktop\tensorflow code>python -m ipykernel install
--user --name=mycode
Installed kernelspec mycode in C:\Users\sandun\AppData\Roaming\jupyter\kerne
ls\mycode

(mycode) C:\Users\sandun\Desktop\tensorflow code>|
```

Now open jupyter notebook and change to this kernel to work inside this virtual environment from the jupyter notebook

You can do it in many ways



or type the following in the terminal that we had been using

```
jupyter notebook
```

```
(mycode) C:\Users\sandun\Desktop\tensorflow code>jupyter notebook
```

you can even load it from a terminal without the virtual environment activated

now in the jupyter notebook the kernel **mycode** appears

Files

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Select items to perform actions on them.

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Notebook:

Python 3 (ipykernel)

cat

mycode

Other:

Text File

Folder

Terminal

☐ 0 ▾ /

Name ▾

☐ mycode

Here you can do the coding and other things as you want