

## Starting assignments

### 1. Activating your virtual environment and using Jupyter

This document reminds you how to open Jupyter Notebook in a virtual environment, to work on your assignments. Read it again if you do not remember how.

Another PDF document ([Using\\_Jupyter.pdf](#)) explains how to **use** Jupyter Notebook.

Open a terminal :

- **Windows** : Press **Windows+R**, a small window will open on the bottom left of your screen. Write « **cmd** » and hit **Enter**
- **Mac** : Press **Command+Space**, a search bar will open. Write « **terminal** » and hit **Enter**
- **Linux** : Press **Ctrl+Alt+T**

Open a terminal (again) and use **cd** to navigate to your Assignments folder.

```
(base) MacBook-Pro-de-Clement-2:~ cgermanicus$ cd Documents/JUNIA/BlockchainAndApplications/Assignments
```

Depending on your operating system (Windows, Mac or Linux), the command to activate a virtual environment varies. Refer to the table below to find the right command for you.

Platform	Shell	Command to activate virtual environment
POSIX	bash/zsh	<code>\$ source &lt;venv&gt;/bin/activate</code>
	fish	<code>\$ source &lt;venv&gt;/bin/activate.fish</code>
	csh/tcsh	<code>\$ source &lt;venv&gt;/bin/activate.csh</code>
	PowerShell	<code>\$ &lt;venv&gt;/bin/Activate.ps1</code>
Windows	cmd.exe	<code>C:\&gt; &lt;venv&gt;\Scripts\activate.bat</code>
	PowerShell	<code>PS C:\&gt; &lt;venv&gt;\Scripts\Activate.ps1</code>

**Note 1 :** Linux and Mac are POSIX. For Linux and Mac, the default terminal is the first one (bash). For Windows, it depends. Look at the top of your terminal window and check if you see « PowerShell ».

**Note 2 :** `<venv>` must be replaced with `env_Blockchain`, because your terminal window is pointing towards your Assignments folder.

As example, on my Mac, I use the default terminal. My command is thus :

`source env_Blockchain/bin/activate.`

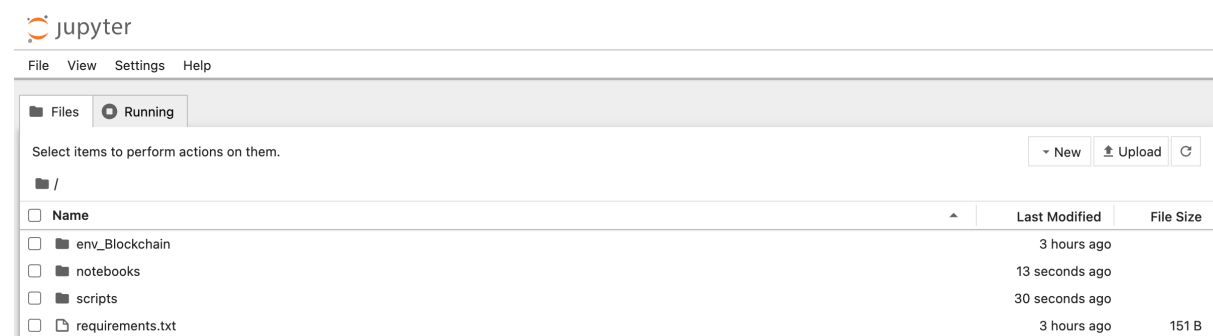
```
(base) MacBook-Pro-de-Clement-2:Assignments cgermanicus$ source env_Blockchain/bin/activate
(env_Blockchain) (base) MacBook-Pro-de-Clement-2:Assignments cgermanicus$
```

You should now see `(env_Blockchain)` displayed at the start of each command line.

Launch Jupyter Notebook using the `jupyter notebook` command.

```
(env_Blockchain) (base) MacBook-Pro-de-Clement-2:Assignments cgermanicus$ jupyter notebook
```

Your web browser should open with a new tab :



If this is not the case, open a web browser yourself and input the following URL which you can find in your terminal (`http://localhost:8888/tree?token=...`) :

```
[I 2024-01-07 15:17:58.847 ServerApp] http://localhost:8888/tree?token=0a535a59b38bce70403adaeab88c3ed82680e7f513a7620f
```

If you don't see those 3 folders (`env_Blockchain`, `notebooks` and `scripts`) nor the `requirements.txt` file, that means something went wrong during your installation. Please read `Installation.pdf` again.

**Note :** You absolutely need to leave the terminal open for Jupyter to properly operate.

## 2. Closing

You can close Jupyter Notebook at any time by going back into the terminal and press **Ctrl+C** (Window, Mac and Linux) or simply by closing the terminal. **Be careful, you won't be able to save your Jupyter Notebook files afterwards !**

If you use **Ctrl+C**, you must also deactivate your virtual environment using **deactivate**. You should not have the **(env\_Blockchain)** at the start of the line anymore.

```
(env_Blockchain) (base) MacBook-Pro-de-Clement-2:Assignments cgermanicus$ deactivate  
(base) MacBook-Pro-de-Clement-2:Assignments cgermanicus$
```