

Jump to the 2nd page to see the result.

For add or edit hostname, open file hostname.json.

How to Run :

1. Run in your favorite IDE
2. Run in Terminal / CMD

*Note: I use CMD Windows*

If you choose option number 2 to run this code, please following this step till the end :

**note : Ensure Python is installed on your system.**

1. Install *virtualenv* python package. You can skip this step to step number 2 if *virtualenv* already installed in your system, or you can jump to step number 3 if you have your own *virtualenv*.

Run Script : pip install virtualenv

```
C:\Dev\Learn\Certificate Validation>pip install virtualenv
Collecting virtualenv
  Downloading virtualenv-20.17.1-py3-none-any.whl (8.8 MB)
    8.8/8.8 MB 91.3 kB/s eta 0:00:00
Collecting distlib<1,>=0.3.6
  Downloading distlib-0.3.6-py2.py3-none-any.whl (468 kB)
    468.5/468.5 kB 116.9 kB/s eta 0:00:00
Collecting filelock<4,>=3.4.1
  Downloading filelock-3.9.0-py3-none-any.whl (9.7 kB)
Collecting platformdirs<3,>=2.4
  Downloading platformdirs-2.6.2-py3-none-any.whl (14 kB)
Installing collected packages: distlib, platformdirs, filelock, virtualenv
Successfully installed distlib-0.3.6 filelock-3.9.0 platformdirs-2.6.2 virtualenv-20.17.1

[notice] A new release of pip available: 22.3.1 -> 23.0
[notice] To update, run: C:\Users\DELL\AppData\Local\Programs\Python\Python311\python.exe -m pip install --upgrade pip
```

2. Create a virtual environment with *virtualenv*.

Run Script : virtualenv venv

```
C:\Dev\Learn\Certificate Validation>virtualenv venv
created virtual environment CPython3.11.1.final.0-64 in 7647ms
creator CPython3Windows(dest=C:\Dev\Learn\Certificate Validation\venv, clear=False, no_vcs_ignore=False, global=False)
seeder FromAppData(download=False, pip=bundle, setuptools=bundle, wheel=bundle, via=copy, app_data_dir=C:\Users\DELL\AppData\Local\pypa\virtualenv)
added seed packages: pip==22.3.1, setuptools==65.6.3, wheel==0.38.4
activators BashActivator,BatchActivator,FishActivator,PowerShellActivator,PythonActivator,NushellActivator
```

3. Activate your *virtualenv*.

Run Script : venv\Scripts\activate

```
C:\Dev\Learn\Certificate Validation>venv\Scripts\activate
```

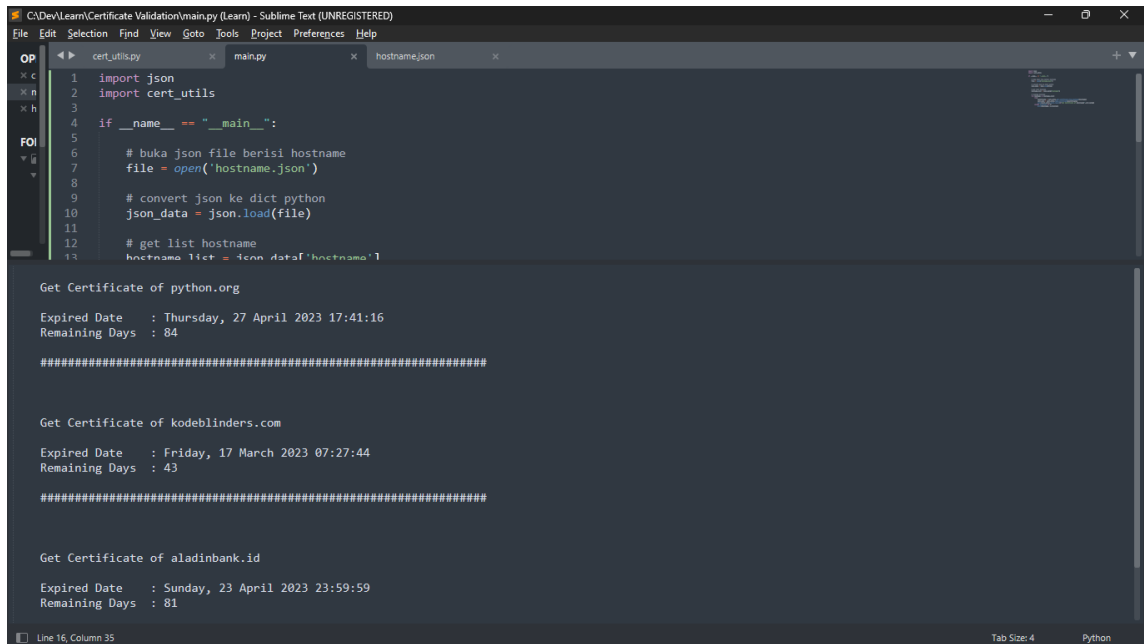
4. Run main.py

Run Script : python main.py

```
(venv) C:\Dev\Learn\Certificate Validation>python main.py
```

## Result

### 1. Running in IDE



The screenshot shows the Sublime Text IDE with a file named `main.py` open. The script imports `json` and `cert_utils`, and uses `cert_utils` to fetch certificates for `python.org`, `kodeblinders.com`, and `aladinbank.id`. The output in the console shows the expiration dates and remaining days for each certificate.

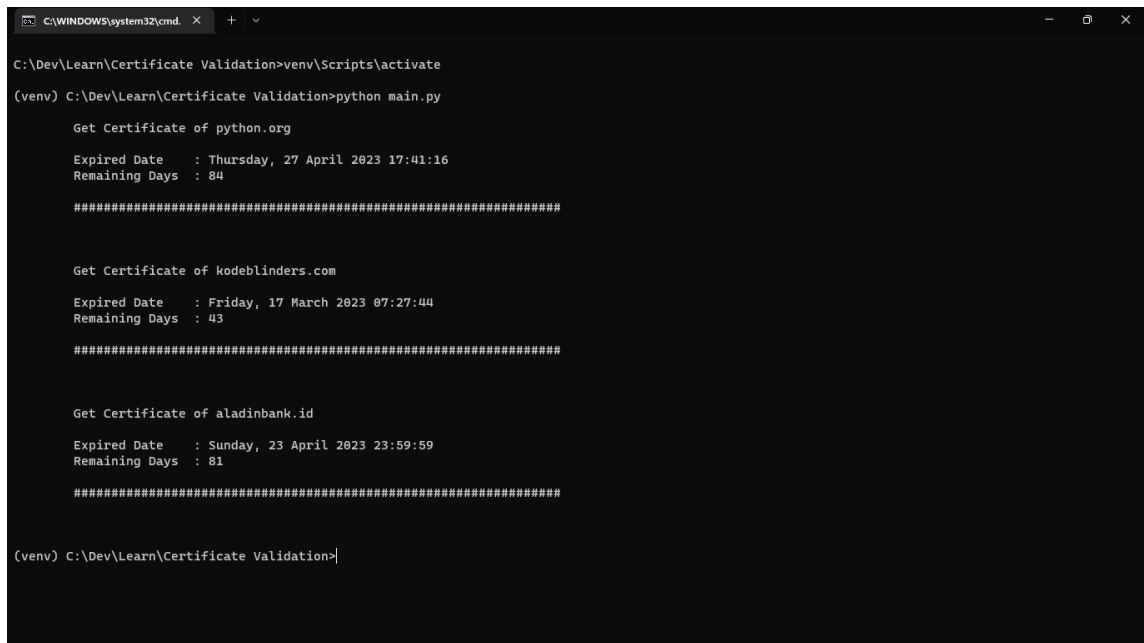
```
1 import json
2 import cert_utils
3
4 if __name__ == "__main__":
5
6     # buka json file berisi hostname
7     file = open("hostname.json")
8
9     # convert json ke dict python
10    json_data = json.load(file)
11
12    # get list hostname
13    hostname_list = json_data['hostname']
```

Get Certificate of python.org  
Expired Date : Thursday, 27 April 2023 17:41:16  
Remaining Days : 84

Get Certificate of kodeblinders.com  
Expired Date : Friday, 17 March 2023 07:27:44  
Remaining Days : 43

Get Certificate of aladinbank.id  
Expired Date : Sunday, 23 April 2023 23:59:59  
Remaining Days : 81

### 2. Running in CMD



The screenshot shows a Windows Command Prompt window with the following commands and output:

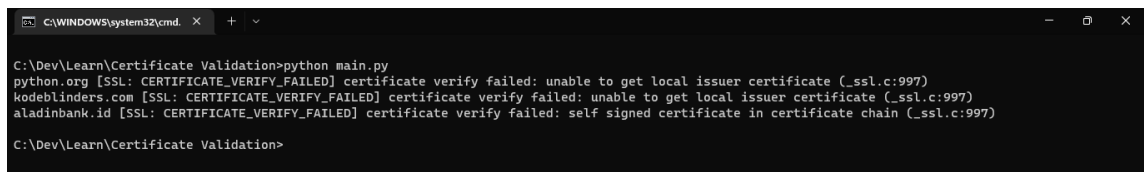
```
C:\Dev\Learn\Certificate Validation>venv\Scripts\activate
(venv) C:\Dev\Learn\Certificate Validation>python main.py

Get Certificate of python.org
Expired Date : Thursday, 27 April 2023 17:41:16
Remaining Days : 84

Get Certificate of kodeblinders.com
Expired Date : Friday, 17 March 2023 07:27:44
Remaining Days : 43

Get Certificate of aladinbank.id
Expired Date : Sunday, 23 April 2023 23:59:59
Remaining Days : 81
```

### 3. Running in CMD without a virtual environment(*virtualenv*).



The screenshot shows a Windows Command Prompt window with the following commands and output:

```
C:\Dev\Learn\Certificate Validation>python main.py
python.org [SSL: CERTIFICATE_VERIFY_FAILED] certificate verify failed: unable to get local issuer certificate (_ssl.c:997)
kodeblinders.com [SSL: CERTIFICATE_VERIFY_FAILED] certificate verify failed: unable to get local issuer certificate (_ssl.c:997)
aladinbank.id [SSL: CERTIFICATE_VERIFY_FAILED] certificate verify failed: self signed certificate in certificate chain (_ssl.c:997)

C:\Dev\Learn\Certificate Validation>
```