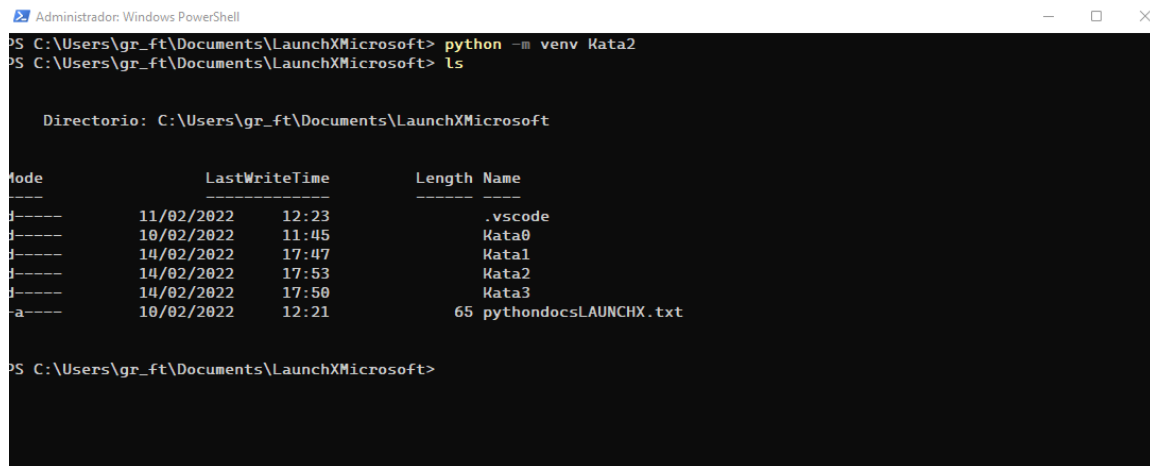


Crear un entorno virtual

Creacion de un entorno virtual desde la terminal, en este caso use PowerShell



```
Administrador: Windows PowerShell
PS C:\Users\gr_ft\Documents\LaunchXMicrosoft> python -m venv Kata2
PS C:\Users\gr_ft\Documents\LaunchXMicrosoft> ls

Directorio: C:\Users\gr_ft\Documents\LaunchXMicrosoft

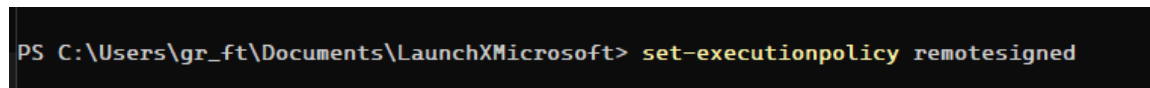
Mode                LastWriteTime         Length Name
----                -
d-----         11/02/2022         12:23         .vscode
d-----         10/02/2022         11:45         Kata0
d-----         14/02/2022         17:47         Kata1
d-----         14/02/2022         17:53         Kata2
d-----         14/02/2022         17:50         Kata3
-a-----         10/02/2022         12:21         65 pythondocsLAUNCHX.txt

PS C:\Users\gr_ft\Documents\LaunchXMicrosoft>
```

Una vez creado el entorno virtual debemos ejecutarlo, pero antes de la ejecución se deben dar permisos.

Se ejecuta el powershell en modo administrador y posteriormente se ejecuta el comando:

set-executionpolicy remotesigned



```
PS C:\Users\gr_ft\Documents\LaunchXMicrosoft> set-executionpolicy remotesigned
```

Se "enciende" el ambiente virtual

 Windows PowerShell

```
PS C:\Users\gr_ft\Documents\LaunchXMicrosoft\Kata0> .\Kata0\Scripts\activate
(Kata0) PS C:\Users\gr_ft\Documents\LaunchXMicrosoft\Kata0>
```

pip freeze comando para visualizar las librerías instaladas

```
(Kata0) PS C:\Users\gr_ft\Documents\LaunchXMicrosoft\Kata0> pip freeze
argon2-cffi==21.3.0
argon2-cffi-bindings==21.2.0
asttokens==2.0.5
attrs==21.4.0
backcall==0.2.0
black==22.1.0
bleach==4.1.0
cffi==1.15.0
click==8.0.3
colorama==0.4.4
cyclr==0.11.0
debugpy==1.5.1
decorator==5.1.1
defusedxml==0.7.1
entrypoints==0.4
executing==0.8.2
fonttools==4.29.1
ipykernel==6.9.0
ipython==8.0.1
ipython-genutils==0.2.0
ipywidgets==7.6.5
jedi==0.18.1
Jinja2==3.0.3
jsonschema==4.4.0
```

Instalacion de alguna libreria, por ejemplo scipy

pip install scipy

```
(Kata0) PS C:\Users\gr_ft\Documents\LaunchXMicrosoft\Kata0> pip install scipy
Collecting scipy
  Downloading scipy-1.8.0-cp310-cp310-win_amd64.whl (37.0 MB)
    | 37.0 MB 6.8 MB/s
Requirement already satisfied: numpy<1.25.0,>=1.17.3 in c:\users\gr_ft\documents\launchxmicrosoft\kata0\kata0\lib\site-packages (from scipy) (1.22.2)
Installing collected packages: scipy
Successfully installed scipy-1.8.0
```

Saliendo del entorno virtual

deactivate

```
(Kata0) PS C:\Users\gr_ft\Documents\LaunchXMicrosoft\Kata0> deactivate  
PS C:\Users\gr_ft\Documents\LaunchXMicrosoft\Kata0>
```