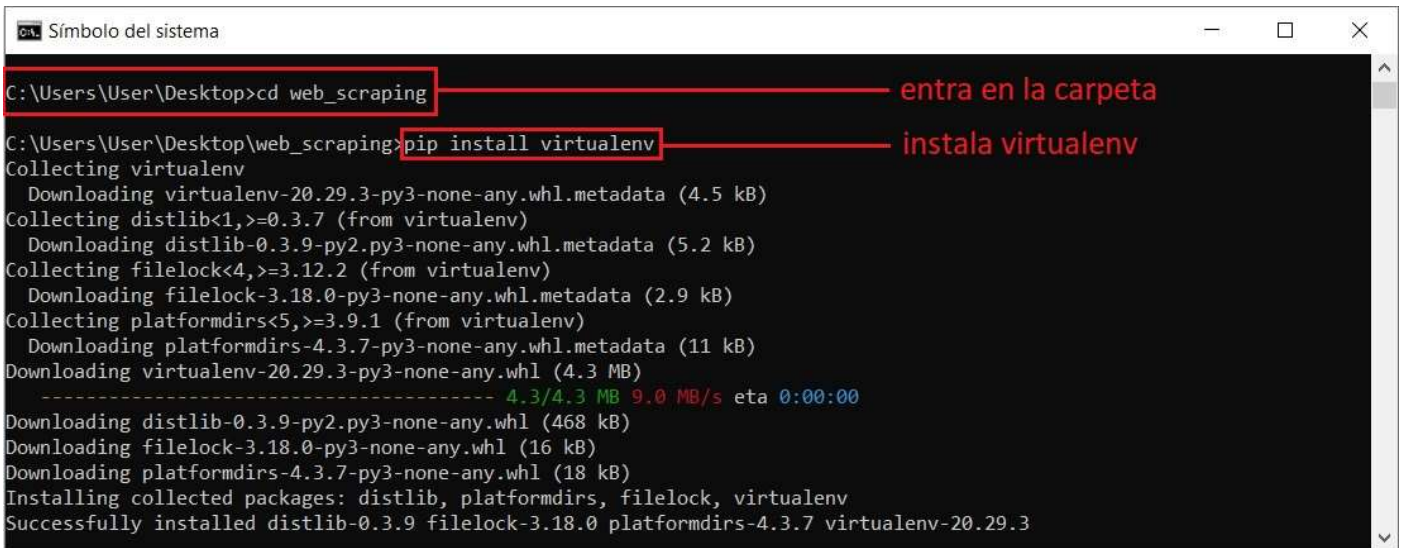


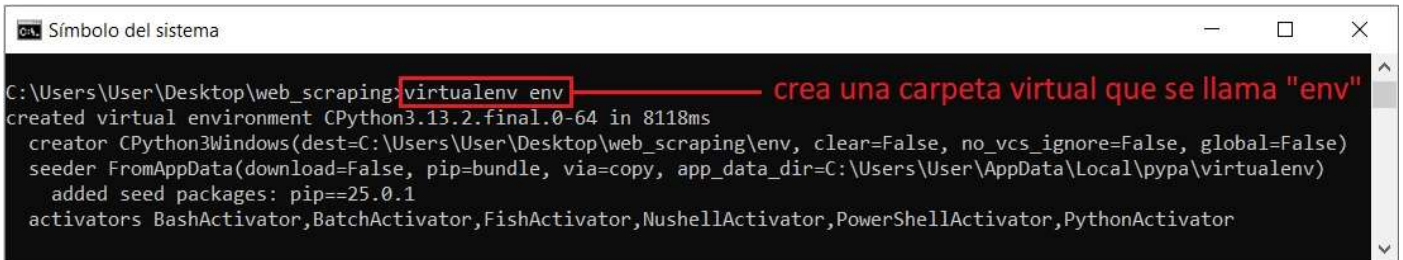
## Entorno virtual de Python para el proyecto web\_scraping

01. Crea una carpeta en el escritorio que se llama "web\_scraping".
02. Instala virtualenv en global con el comando "pip install virtualenv".



```
Símbolo del sistema
C:\Users\User\Desktop>cd web_scraping
C:\Users\User\Desktop\web_scraping>pip install virtualenv
Collecting virtualenv
  Downloading virtualenv-20.29.3-py3-none-any.whl.metadata (4.5 kB)
Collecting distlib<1,>=0.3.7 (from virtualenv)
  Downloading distlib-0.3.9-py2.py3-none-any.whl.metadata (5.2 kB)
Collecting filelock<4,>=3.12.2 (from virtualenv)
  Downloading filelock-3.18.0-py3-none-any.whl.metadata (2.9 kB)
Collecting platformdirs<5,>=3.9.1 (from virtualenv)
  Downloading platformdirs-4.3.7-py3-none-any.whl.metadata (11 kB)
Downloaded virtualenv-20.29.3-py3-none-any.whl (4.3 MB)
----- 4.3/4.3 MB 9.0 MB/s eta 0:00:00
Downloaded distlib-0.3.9-py2.py3-none-any.whl (468 kB)
Downloaded filelock-3.18.0-py3-none-any.whl (16 kB)
Downloaded platformdirs-4.3.7-py3-none-any.whl (18 kB)
Installing collected packages: distlib, platformdirs, filelock, virtualenv
Successfully installed distlib-0.3.9 filelock-3.18.0 platformdirs-4.3.7 virtualenv-20.29.3
```

03. Crea una carpeta virtual que se llama "env" dentro de la carpeta "web\_scraping".



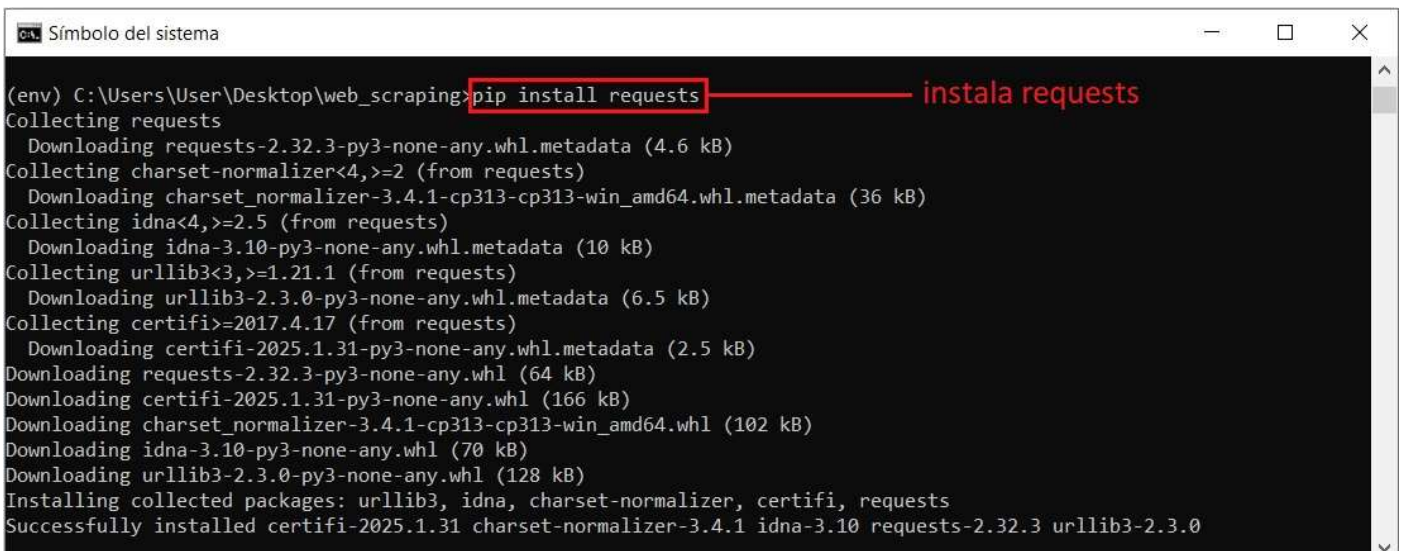
```
Símbolo del sistema
C:\Users\User\Desktop\web_scraping>virtualenv env
created virtual environment CPython3.13.2.final.0-64 in 8118ms
creator CPython3Windows(dest=C:\Users\User\Desktop\web_scraping\env, clear=False, no_vcs_ignore=False, global=False)
seeder FromAppData(download=False, pip=bundle, via=copy, app_data_dir=C:\Users\User\AppData\Local\pypa\virtualenv)
added seed packages: pip==25.0.1
activators BashActivator,BatchActivator,FishActivator,NushellActivator,PowerShellActivator,PythonActivator
```

04. Activa la carpeta "env" en modo virtual con el comando ".\env\Scripts\activate".



```
Símbolo del sistema
C:\Users\User\Desktop\web_scraping>.\env\Scripts\activate
(env) C:\Users\User\Desktop\web_scraping>pip install requests
```

05. Instala la librería dentro de la carpeta "env" con el comando "pip install requests".



```
(env) C:\Users\User\Desktop\web_scraping>pip install requests
Collecting requests
  Downloading requests-2.32.3-py3-none-any.whl.metadata (4.6 kB)
Collecting charset-normalizer<4,>=2 (from requests)
  Downloading charset-normalizer-3.4.1-cp313-cp313-win_amd64.whl.metadata (36 kB)
Collecting idna<4,>=2.5 (from requests)
  Downloading idna-3.10-py3-none-any.whl.metadata (10 kB)
Collecting urllib3<3,>=1.21.1 (from requests)
  Downloading urllib3-2.3.0-py3-none-any.whl.metadata (6.5 kB)
Collecting certifi>=2017.4.17 (from requests)
  Downloading certifi-2025.1.31-py3-none-any.whl.metadata (2.5 kB)
Downloaded requests-2.32.3-py3-none-any.whl (64 kB)
Downloaded certifi-2025.1.31-py3-none-any.whl (166 kB)
Downloaded charset-normalizer-3.4.1-cp313-cp313-win_amd64.whl (102 kB)
Downloaded idna-3.10-py3-none-any.whl (70 kB)
Downloaded urllib3-2.3.0-py3-none-any.whl (128 kB)
Installing collected packages: urllib3, idna, charset-normalizer, certifi, requests
Successfully installed certifi-2025.1.31 charset-normalizer-3.4.1 idna-3.10 requests-2.32.3 urllib3-2.3.0
```

06. Instala la librería dentro de la carpeta “env” con el comando “pip install inflection”.

```
Símbolo del sistema

(env) C:\Users\User\Desktop\web_scraping>pip install inflection
Collecting inflection
  Downloading inflection-0.5.1-py2.py3-none-any.whl.metadata (1.7 kB)
  Downloading inflection-0.5.1-py2.py3-none-any.whl (9.5 kB)
Installing collected packages: inflection
Successfully installed inflection-0.5.1
```

07. Instala la librería dentro de la carpeta “env” con el comando “pip install beautifulsoup4”.

```
Símbolo del sistema

(env) C:\Users\User\Desktop\web_scraping>pip install beautifulsoup4
Collecting beautifulsoup4
  Downloading beautifulsoup4-4.13.3-py3-none-any.whl.metadata (3.8 kB)
Collecting soupsieve>1.2 (from beautifulsoup4)
  Downloading soupsieve-2.6-py3-none-any.whl.metadata (4.6 kB)
Collecting typing-extensions>=4.0.0 (from beautifulsoup4)
  Downloading typing_extensions-4.12.2-py3-none-any.whl.metadata (3.0 kB)
  Downloading beautifulsoup4-4.13.3-py3-none-any.whl (186 kB)
  Downloading soupsieve-2.6-py3-none-any.whl (36 kB)
  Downloading typing_extensions-4.12.2-py3-none-any.whl (37 kB)
Installing collected packages: typing-extensions, soupsieve, beautifulsoup4
Successfully installed beautifulsoup4-4.13.3 soupsieve-2.6 typing-extensions-4.12.2
```

08. Visualiza las librerías instaladas dentro de la carpeta virtual “env” con el comando “pip freeze”.

```
Símbolo del sistema

(env) C:\Users\User\Desktop\web_scraping>pip freeze
beautifulsoup4==4.13.3
certifi==2025.1.31
charset-normalizer==3.4.1
idna==3.10
inflection==0.5.1
requests==2.32.3
soupsieve==2.6
```

09. Aviso de nueva actualización para “pip”, comando para actualizar “python.exe -m pip install --upgrade pip”.

```
Símbolo del sistema

[notice] A new release of pip is available: 24.3.1 -> 25.0.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\User\Desktop\web_scraping>python.exe -m pip install --upgrade pip
Requirement already satisfied: pip in c:\users\user\appdata\local\programs\python\python313\lib\site-packages (24.3.1)
Collecting pip
  Downloading pip-25.0.1-py3-none-any.whl.metadata (3.7 kB)
  Downloading pip-25.0.1-py3-none-any.whl (1.8 MB)
----- 1.8/1.8 MB 7.7 MB/s eta 0:00:00
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 24.3.1
    Uninstalling pip-24.3.1:
      Successfully uninstalled pip-24.3.1
Successfully installed pip-25.0.1
```

10. Para salir de modo virtual, ejecutamos el comando “deactivate”.

```
Símbolo del sistema

(env) C:\Users\User\Desktop\web_scraping>deactivate
C:\Users\User\Desktop\web_scraping>
```