

## venv in python

Command	Use	environment
python -m venv <venv_name>	To create virtual environment in the same parent directory named venv_name	macOS, linux
python3 -m venv <venv_name>		windows
source venv\bin\activate	Activates venv	macOS, linux
venv\Scripts\activate		windows (cmd)
.\venv\Scripts\Activate.ps1		windows (powershell)
deactivate	Deactivates venv	universal
pip freeze > requirements.txt	This file generates and lists all the packages and their versions that are installed in that env automatically	universal
pip install -r requirements.txt	<p>To share our project, we should include this file. Others can then use it to set up the exact same environment:</p> <p>1. Create and activate a new virtual environment.</p> <p>2. Run the following command to install all the required packages:</p>	univer
PowerShell execution policies (this is a error which may occur while activating your venv)		
Get-ExecutionPolicy	To get the effective execution policy	Windows
Get-ExecutionPolicy -List	To get all of the execution policies that affect the current session and display them in precedence order	=
Get-ExecutionPolicy -Scope CurrentUser	To get the execution policy for the <b>CurrentUser</b> scope	=
Set-ExecutionPolicy -ExecutionPolicy <PolicyName>	To change your execution policy	PolicyName = [ Unrestricted, RemoteSigned, AllSigned, Restricted, Default, Bypass, Undefined]
Set-ExecutionPolicy -ExecutionPolicy <PolicyName> -Scope <scope>	To set the execution policy in a particular scope	
Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Scope CurrentUser		
rm -rf <venv_name>	To remove virtual env, run after deactivate	MacOS, Linux
rmdir /s /q <venv_name>		Windows

(cmd command to create multi files : for /d %i in (\*) do type nul > "%i\gitkeep" )

collections in python

Class	Description	Use Case
namedtuple	Creates tuple subclass with named fields.	Enhancing code readability and self-documentation.
deque	A list-like container with fast appends and pops on either end.	Implementing queues, stacks, or sliding window algorithms.
Counter	A dictionary subclass for counting hashable objects.	Quickly counting item frequencies in a sequence.
defaultdict	A dictionary subclass that provides a default value for missing keys.	Simplifying code that groups data or handles missing keys
OrderedDict	A dictionary subclass that remembers the order of insertion	Legacy code or scenarios where insertion order is critical.