Creating Virtual Environment:

Installing pyenv-win is not very straightforward due to how Windows 10/11 and PowerShell works, but if you follow those steps, it shouldn't be too much of a hassle:

1. Download pyenv-win ZIP-archive: [pyenv-win](#)

2. Create a new folder .pyenv in your user folder with the name .pyenv. You can do this using the Explorer or the following PowerShell command:

    ```
    1  mkdir $HOME/.pyenv
    ```

3. Extract the ZIP-archive and copy the pyenv-win folder and the .version file from the pyenv-win-master folder into the newly created .pyenv folder in your user folder.

4. Set the environment variables PYENV and PYENV_HOME that point to the installation folder:

    ```
    1  [System.Environment]::SetEnvironmentVariable('PYENV',$env:USERPROFILE + "\.pyenv\pyenv-win\","User")

    2  [System.Environment]::SetEnvironmentVariable('PYENV_HOME',$env:USERPROFILE + "\.pyenv\pyenv-win\","User")
    ```

5. Add the bin folder to the PATH variable. Such that pyenv can be found when using the command line.

    ```
    1  [System.Environment]::SetEnvironmentVariable('path', $env:USERPROFILE + "\.pyenv\pyenv-win\bin;" + $env:USERPROFILE + "\.pyenv\pyenv-win\shims;" + [System.Environment]::GetEnvironmentVariable('path', "User"),"User")
    ```

    Close the current PowerShell.

6. If you haven't enabled script execution yet, start a new PowerShell with admin privileges by right-clicking on the PowerShell icon in the start menu and choose *Run as administrator*. Otherwise, skip ahead to step 9.

    Enter the following script in the power shell

    ```
    1  Set-ExecutionPolicy unrestricted
    ```

And press A to choose *Yes to ALL*. Afterward, you can close this PowerShell window and open a new one without admin privileges.

7. Enter **pyenv** to run it.

8. If you encounter a security warning from where you have to choose if you want to run pyenv you can disable this warning by "unblocking" the pyenv script with the following command:

    ```
    1  Unblock-File $HOME/.pyenv/pyenv-win/bin/pyenv.ps1
    ```

Activation:

1. Install python different versions **pyenv install -l**
2. Set local and global version versions

   Pyenv global [python version]

3. **Create python virtual environment**
   Python -m venv .venv

4. Change directory to virtual environment

   Ls .\.venv\scripts

5. Activate the environment
   .\.venv\scripts\activate