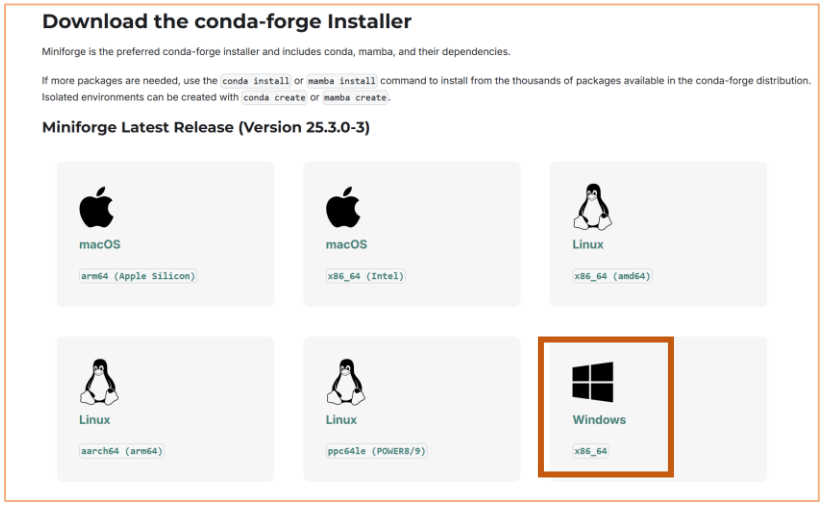
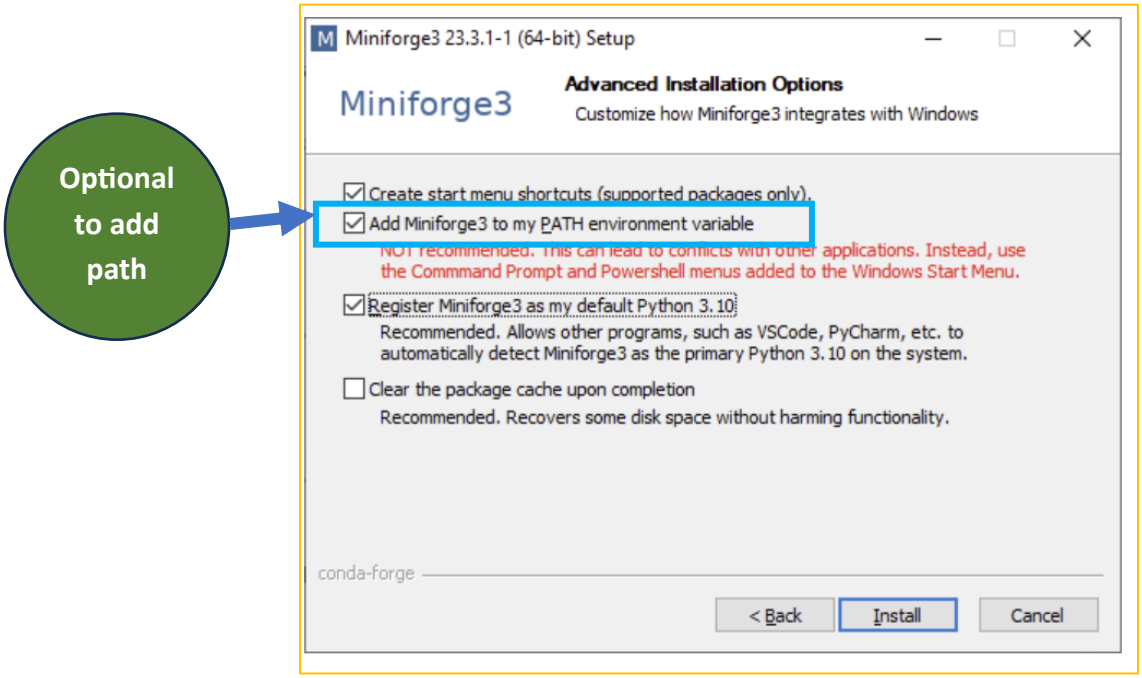
STEPWISE TUTORIAL TO INSTALL ENVIRONMENT FOR PyGILE IN WINDOWS

Step 1: Download miniforge using link below

https://conda-forge.org/download/



Step 2: Install Miniforge;

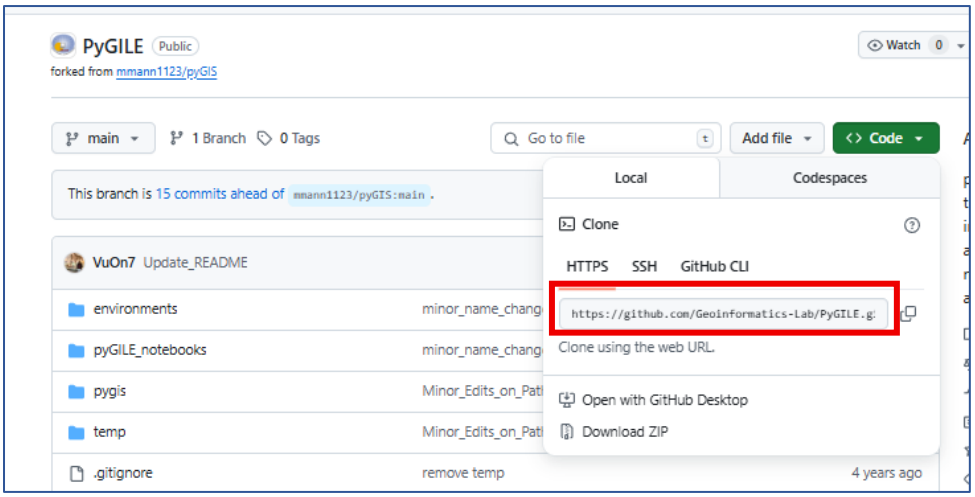


Step 3: Clone the repo or download files from Github; [https://github.com/Geoinformatics-Lab/pyGILE]

Here, for this tutorial, it's saved in the folder below "C:\Users\ibhuw\Downloads\pyGILE-main.zip"; unzip it;

There will be a text file inside:

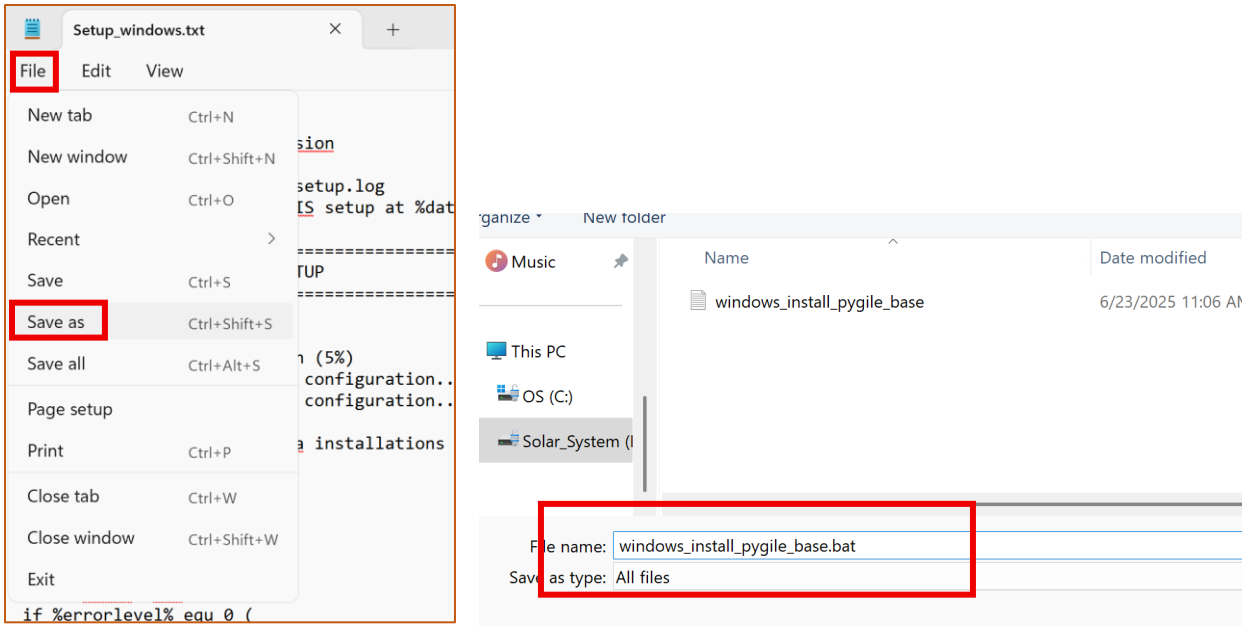
"C:\Users\ibhuw\Downloads\pyGILE-main\environments\windows\windows_install_pygile_base.txt"



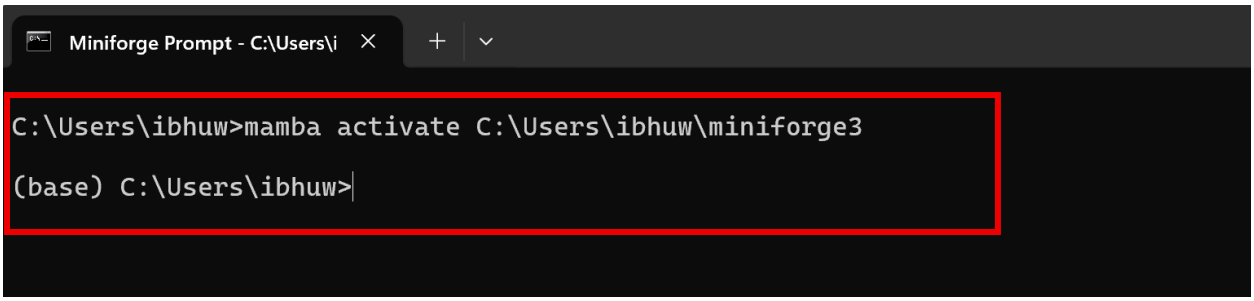
Step 4: Open the "windows_install_pyGILE_base.txt" and save as "windows_install_pygile_base.bat"; change save file type as "All files"; SAVE IN THE SAME FOLDER where windows_install_pygile_base.txt is present. (*CHECK image below*)

E.g.

"C:\Users\ibhuw\Downloads\pyGILE-main \environments\windows\windows_install_pygile_base.bat"

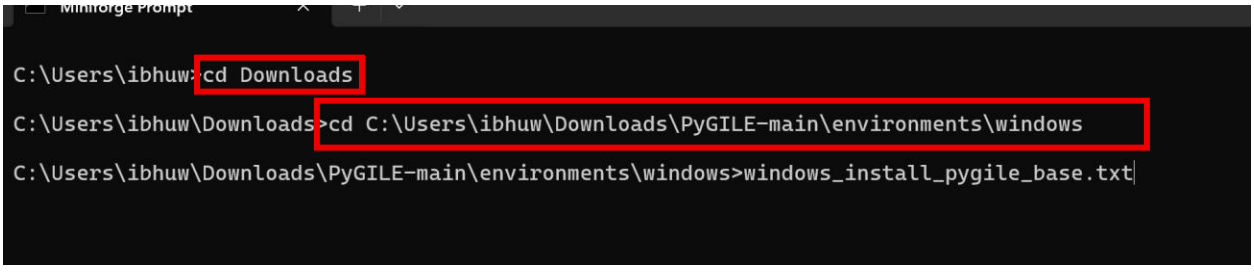


Step 5: Now search for "miniforge prompt" from Start in windows; and open "miniforge prompt"; something like this appears *(see image below)*



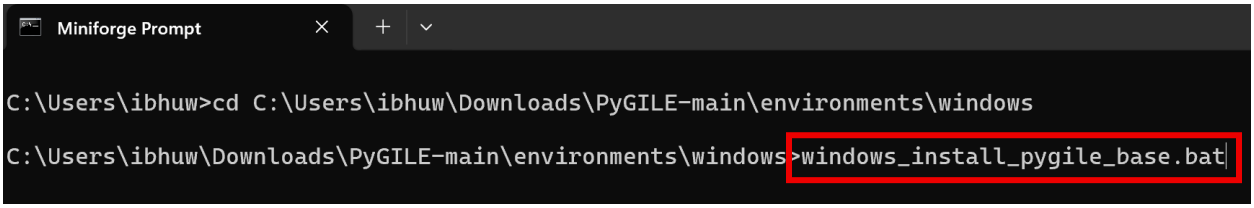
Step 6: NOTE: cd to the directory of containing "windows_install_pygile_base.bat" and then type the name of the file;

Here, the files are downloaded in "Downloads" folder; (base) showing or not; installation will not be affected;



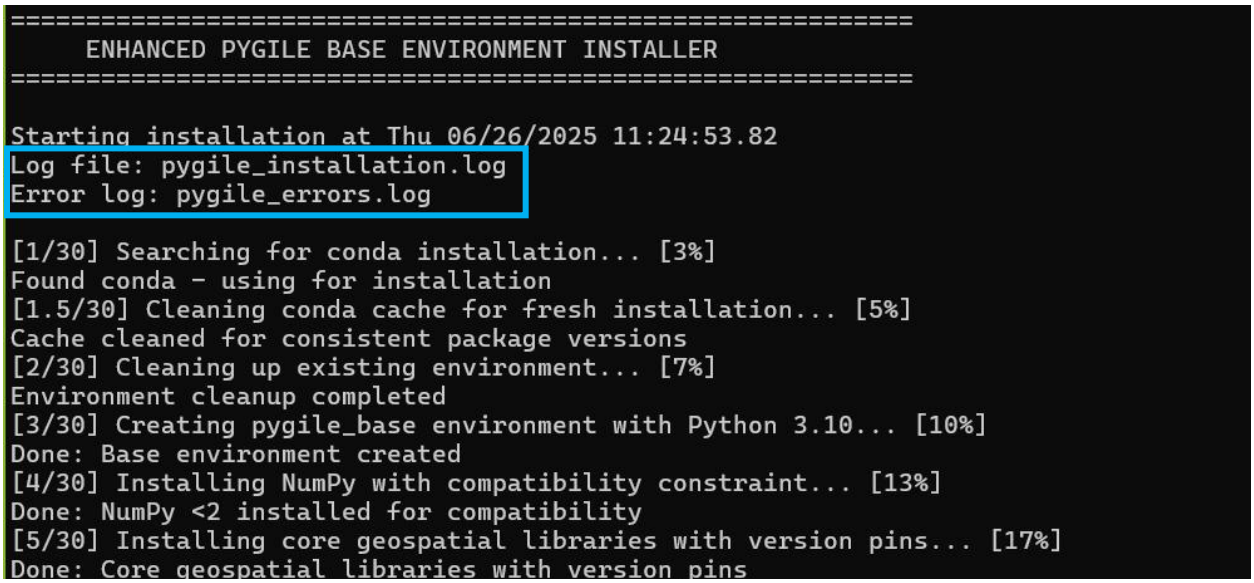
Step 7: Check the directory of installation; directory containing "windows_install_pygile_base.bat"; a log file named "pygile_errors.log" and "pygile_installation.log" will be created alongside the installation to check for issues and installations.

Step 8: Install the batch file by typing the name of the file "windows_install_pygile_base.bat"

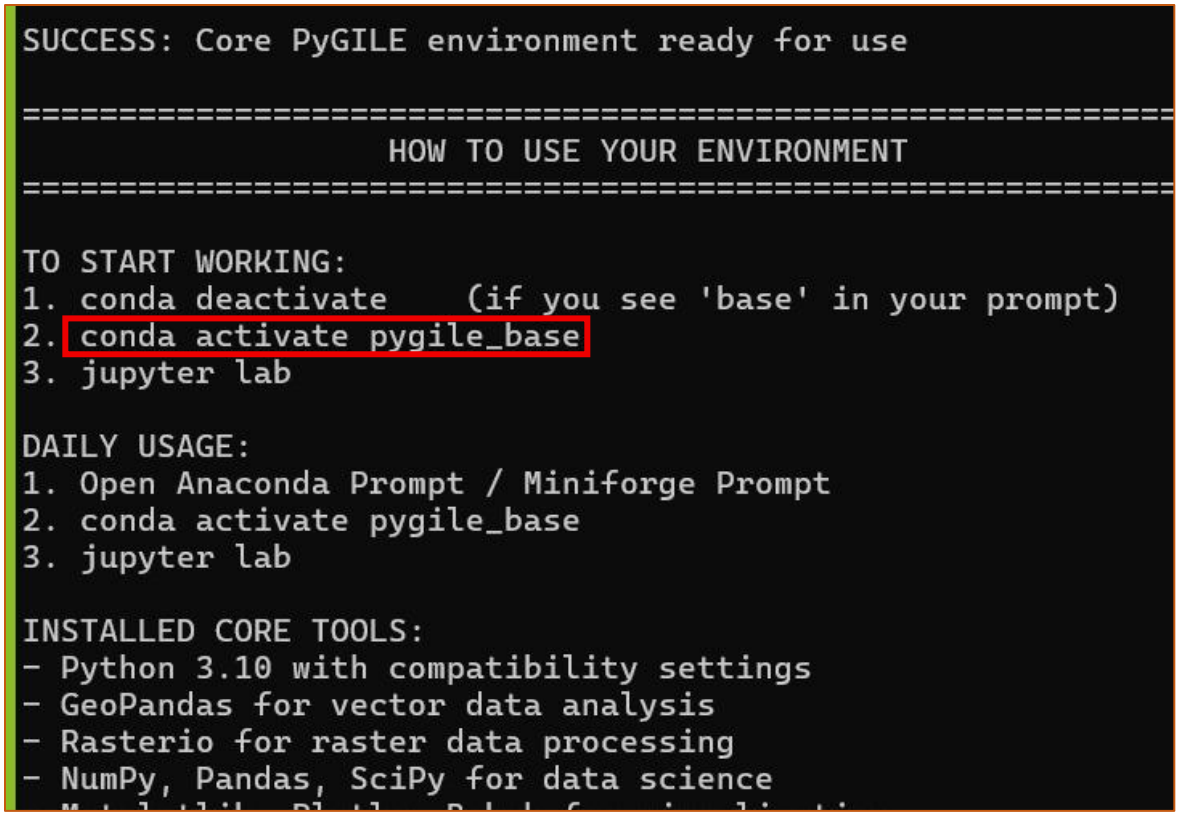


Check the progress as the installation continues: BE PATIENT AND keep an eye on the log file "pygile_errors.log", "pygile_installation.log" generated on the same folder; such as:

"C:\Users\ibhuw\Downloads\pyGILE-main\ environments\windows\pygile_errors.log"



AFTER SUCCESSFUL INSTALLATION; SCREEN SIMILAR TO THIS WILL APPEAR



Step 9: After successful installation of the environment "pygile_base";

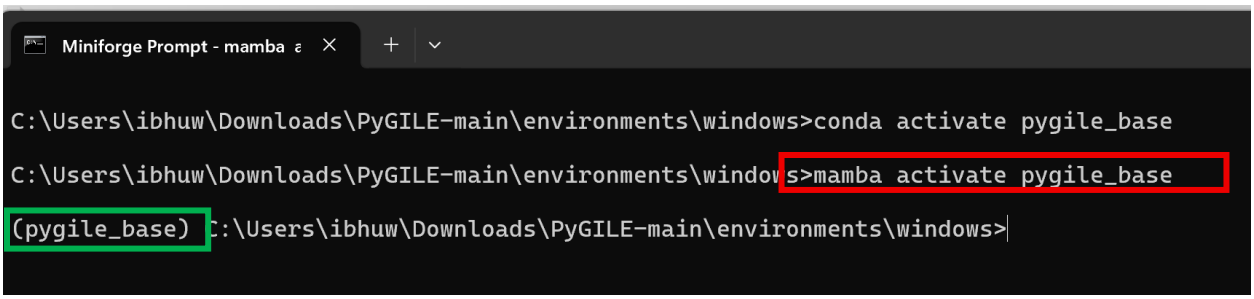
before activating the newly created environment, type "conda deactivate"; (base) will be removed now from the front;

or activate new env in conda itself "conda activate pygile_base"; BOTH SHOULD WORK!!

then, activate the newly created environment using "mamba activate pygile_base" in same miniforge prompt.

DON'T GET CONFUSED "MAMBA AND CONDA ARE THE SAME THING"

A correctly activated environment will have "pygile_base" written at the front (see the green rectangle)



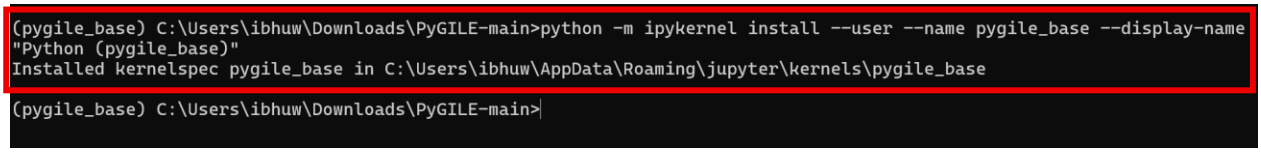
Step 10: ipykernel for Jupyter

Install ipykernel to make your environment available in Jupyter

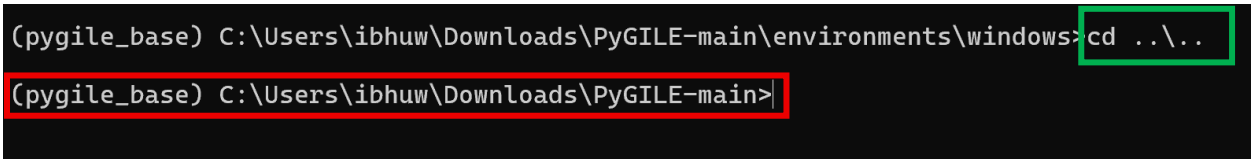
conda install ipykernel

Register your current environment with Jupyter

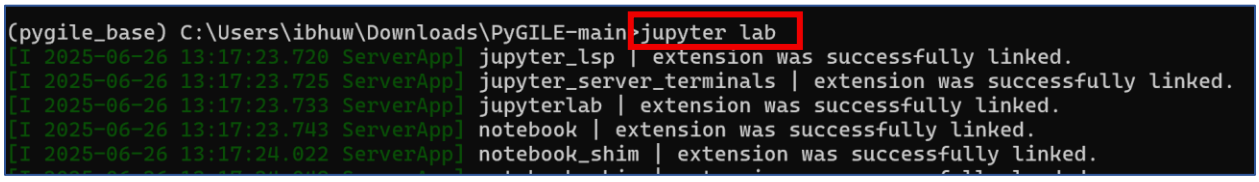
python -m ipykernel install --user --name pygile_base --display-name "Python (pygile_base)"



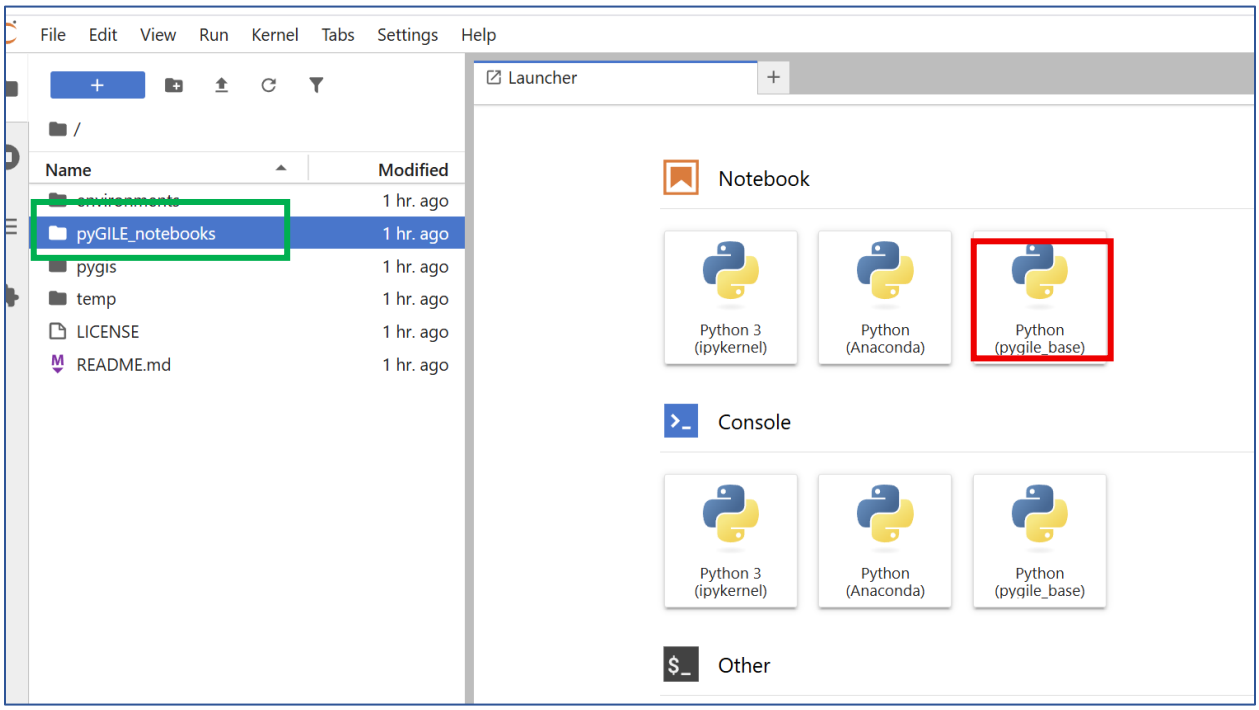
Step 11: return back to pygis-main (cd..)

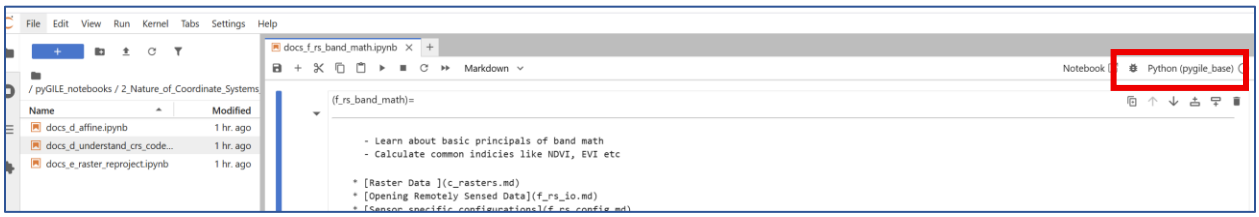


Step 12: Type "jupyter lab"; press enter; (wait 10-15 secs)



Step 13: A launcher window will pop up on your browser; click python3 (ipykernel (pygile_base)





REGULAR USAGE

Open miniforge prompt,

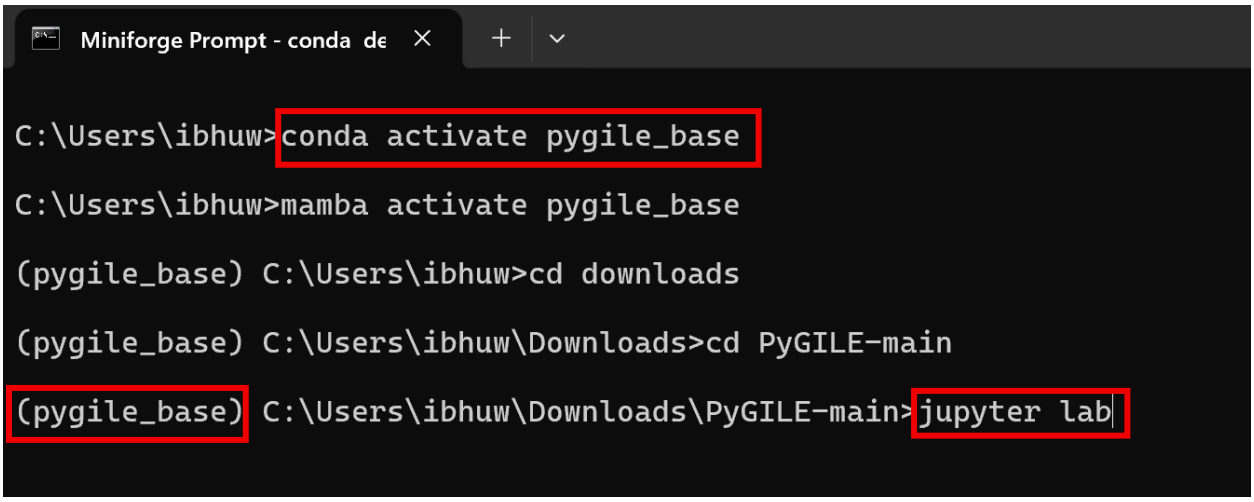
first, deactivate conda,

or activate newly formed env in coda first using conda activate pygile_base

then mamba activate pygile_base

then cd into the download folder of pyGIS-main;

then run jupyter lab



ENJOY_CODING!!

ENJOY_LEARNING!!