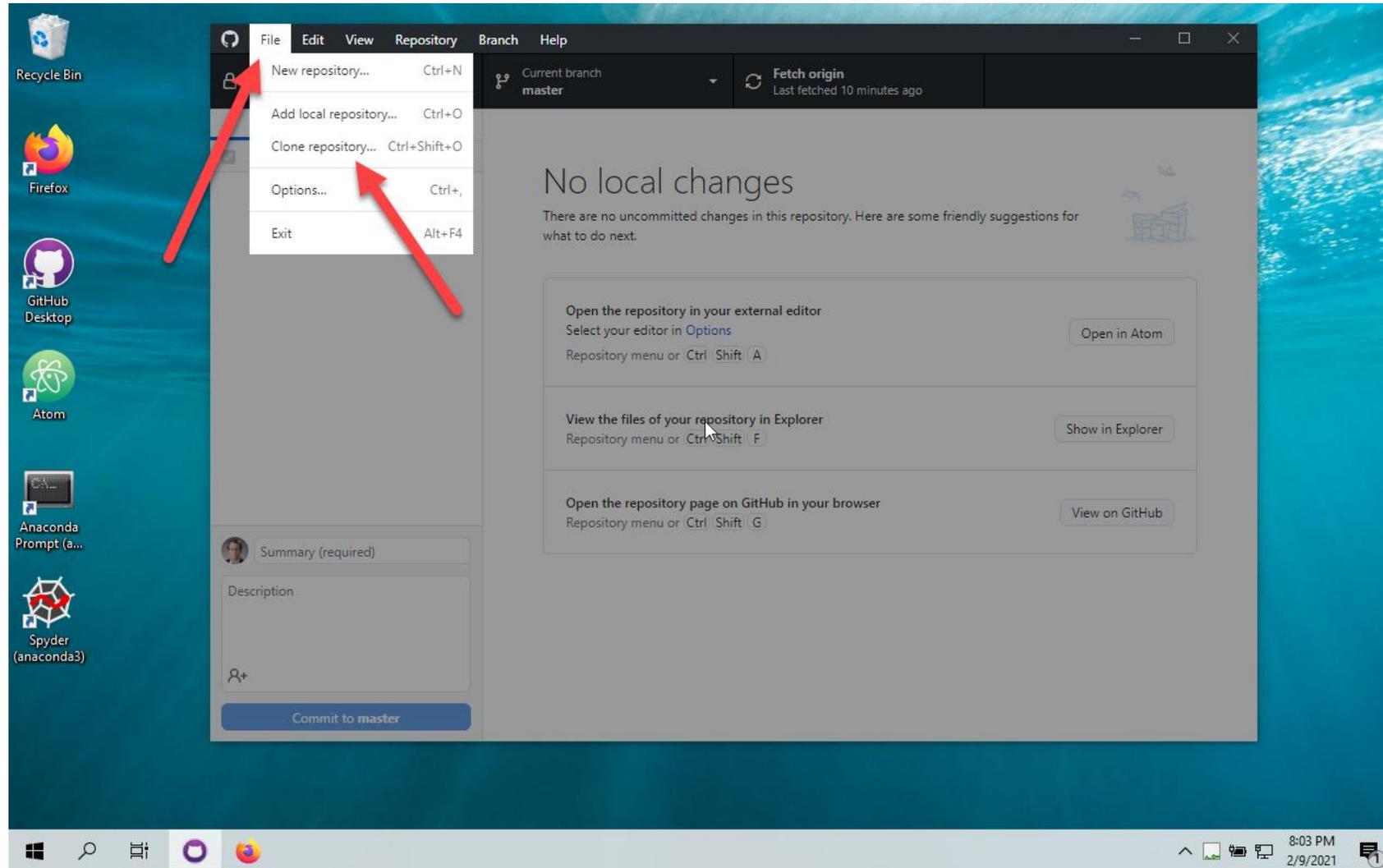
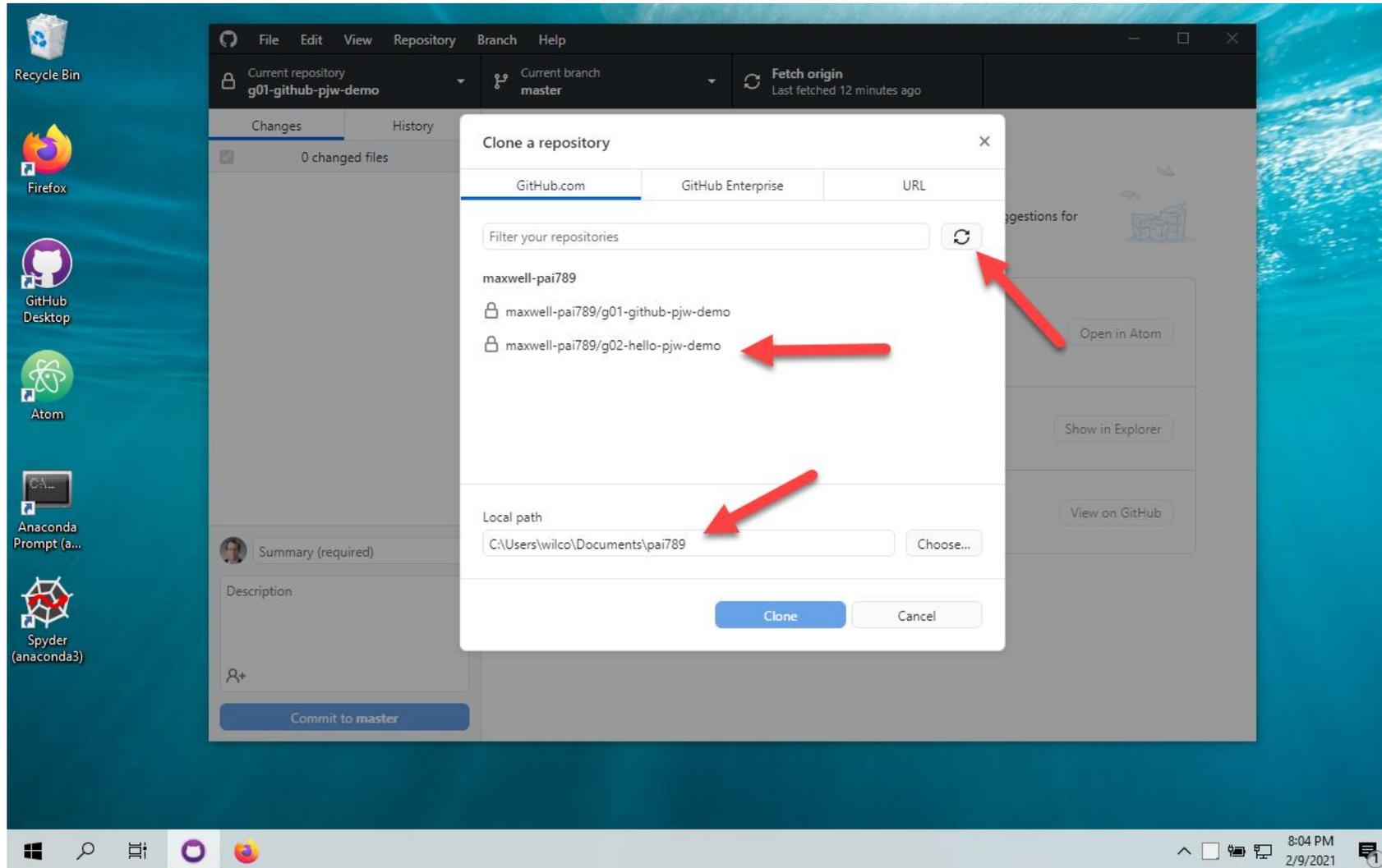


# Introduction to Spyder

# Cloning g02 from GitHub Desktop



# Selecting the repository and confirming the location



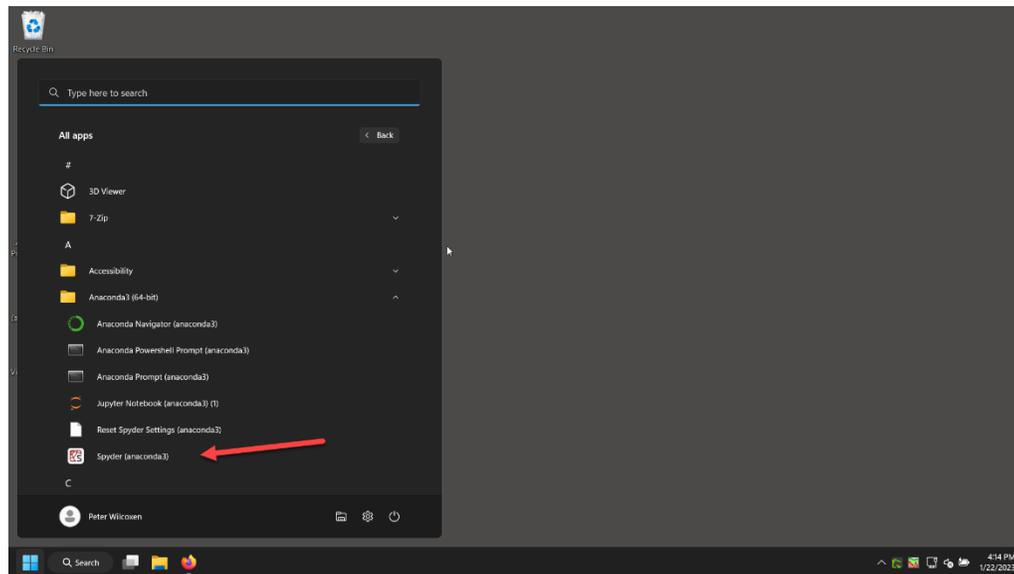
# Finished cloning, now launch spyder

Via Anaconda Navigator

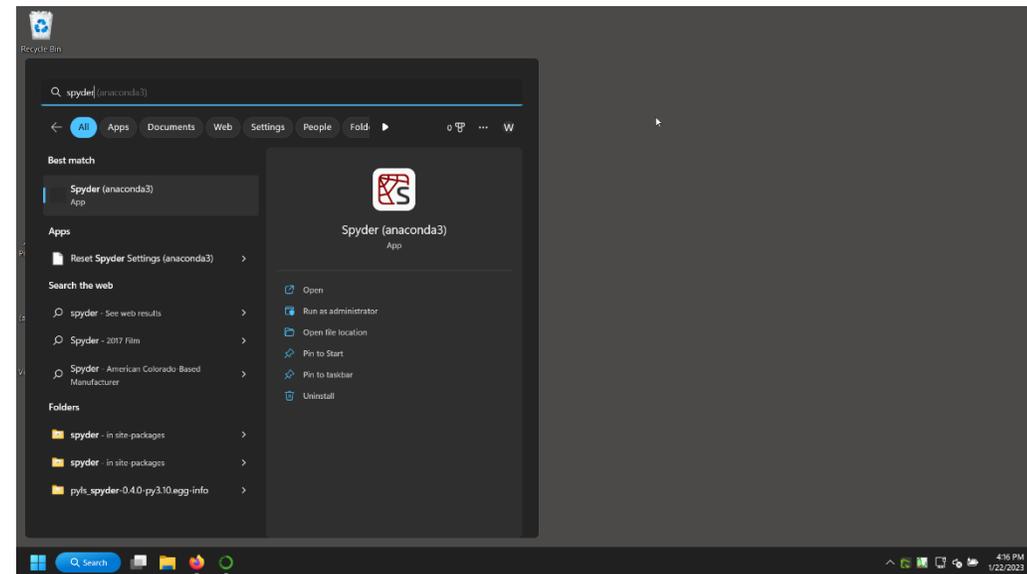
The screenshot shows the Anaconda Navigator desktop application. The interface includes a top menu bar with 'File' and 'Help', a central header with the 'ANACONDA.NAVIGATOR' logo and an 'Upgrade Now' button, and a left sidebar with navigation options: 'Home', 'Environments', 'Learning', and 'Community'. The main area displays a grid of application cards under the heading 'All applications on base (root) Channels'. A red arrow points to the 'Spyder' card, which is described as a 'Scientific Python Development Environment' with features like advanced editing, interactive testing, and debugging. Other cards include DataSpell, CMD.exe Prompt, JupyterLab, Jupyter Notebook, Powershell Prompt, Qt Console, VS Code, Datalore, Deepnote, IBM Watson Studio Cloud, Oracle Cloud Infrastructure, console\_shortcut\_miniconda, Glueviz, Orange 3, powershell\_shortcut\_miniconda, PyCharm Professional, and RStudio. The Windows taskbar at the bottom shows the search bar, task view, and system tray with the time 4:17 PM on 1/22/2023.

# OR: alternative ways to launch spyder on Windows

(1) via start menu icon

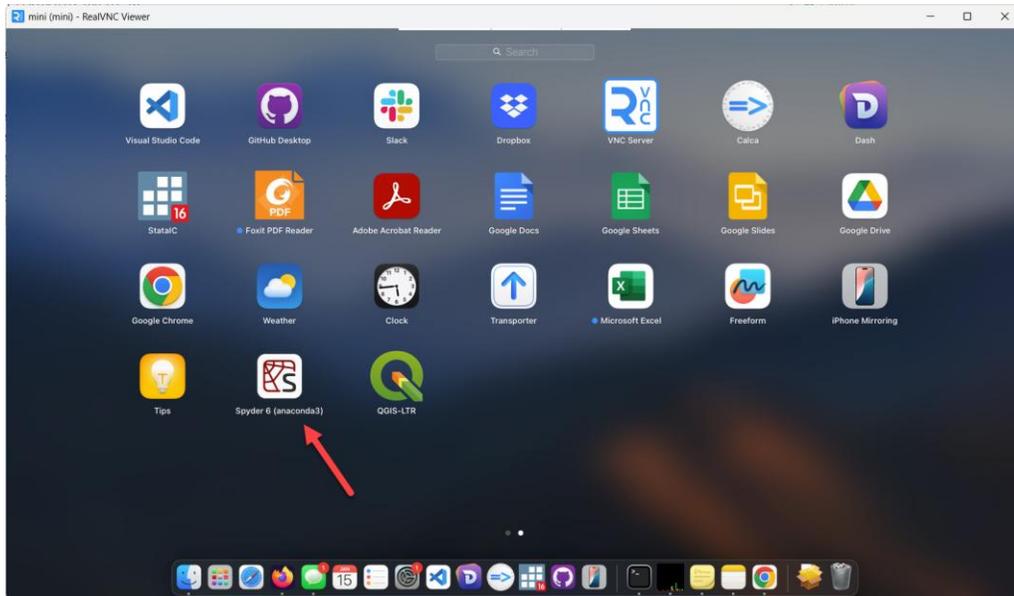


(2) via search

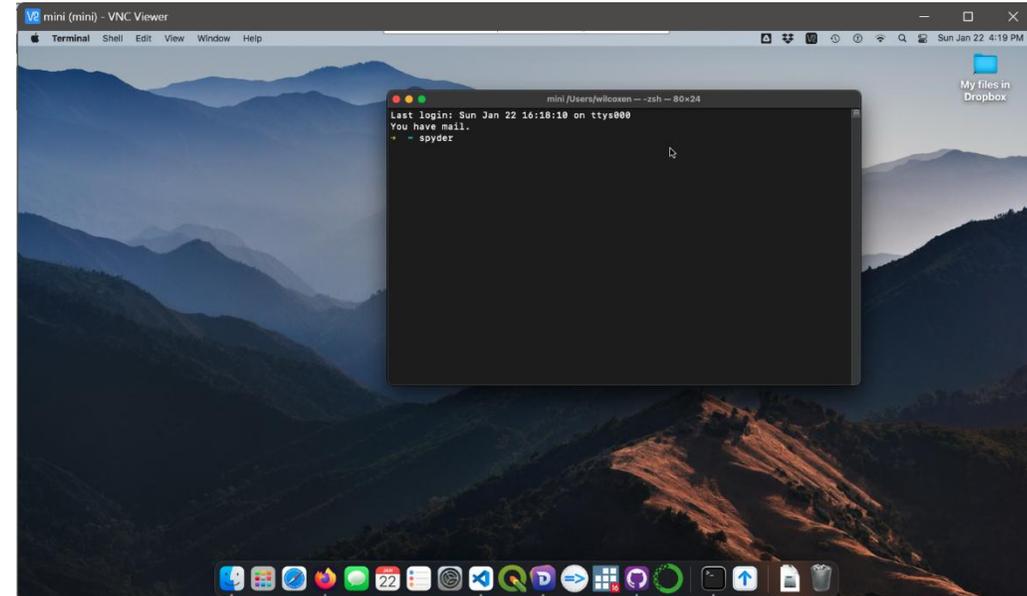


# OR: alternative ways to launch spyder on a Mac

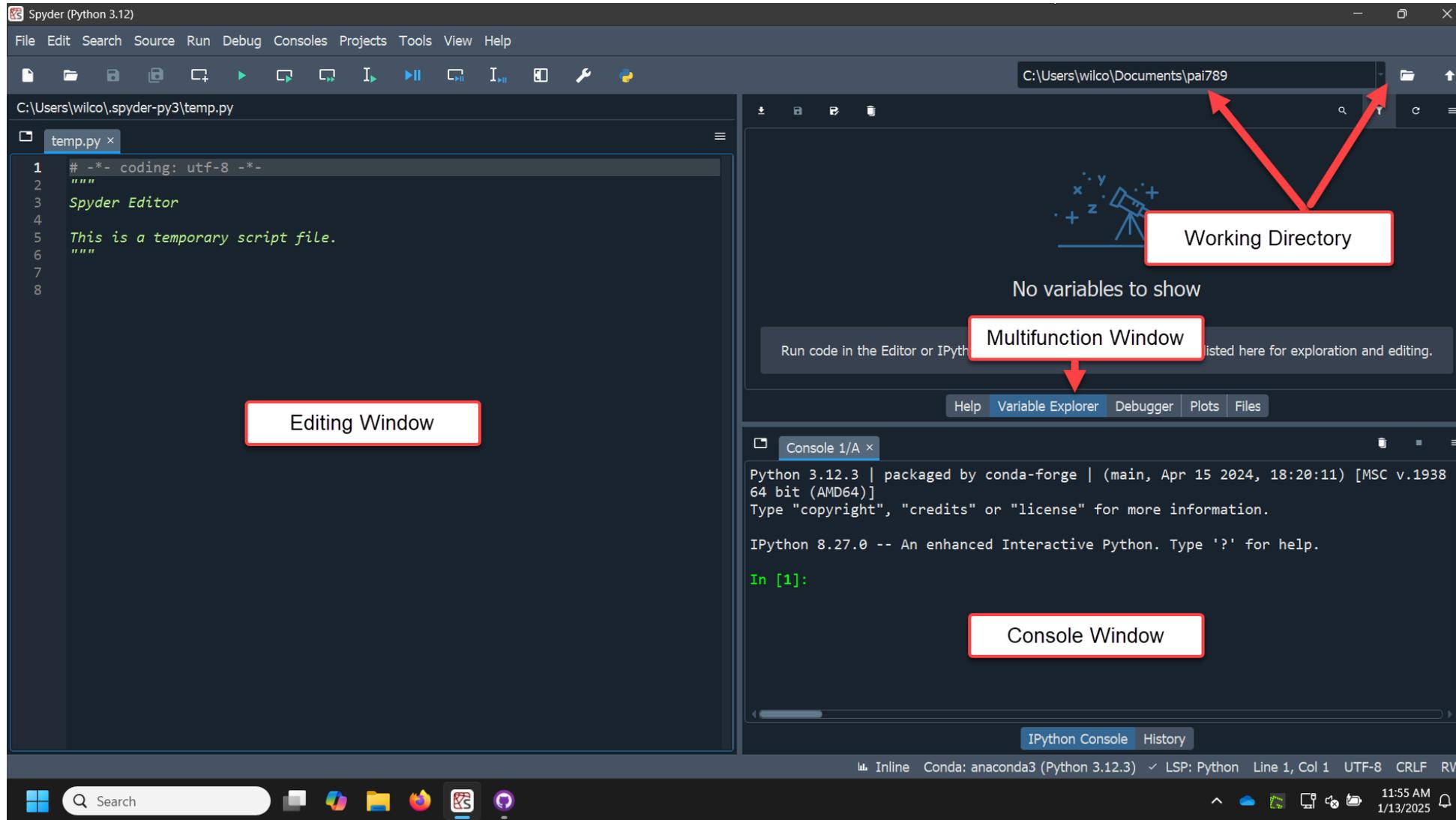
(1) use the Spyder 6 application icon



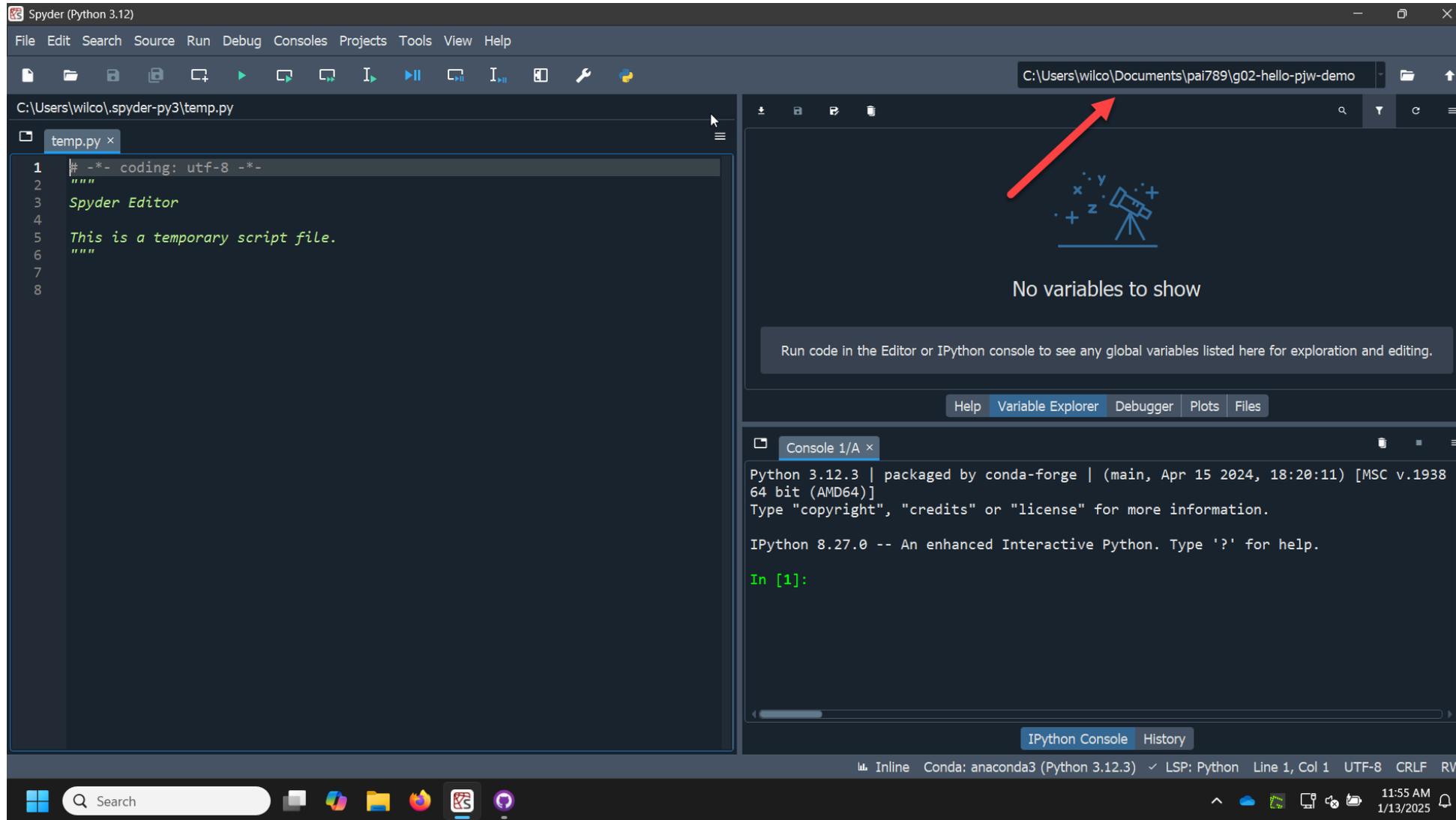
(2) use terminal give the spyder command



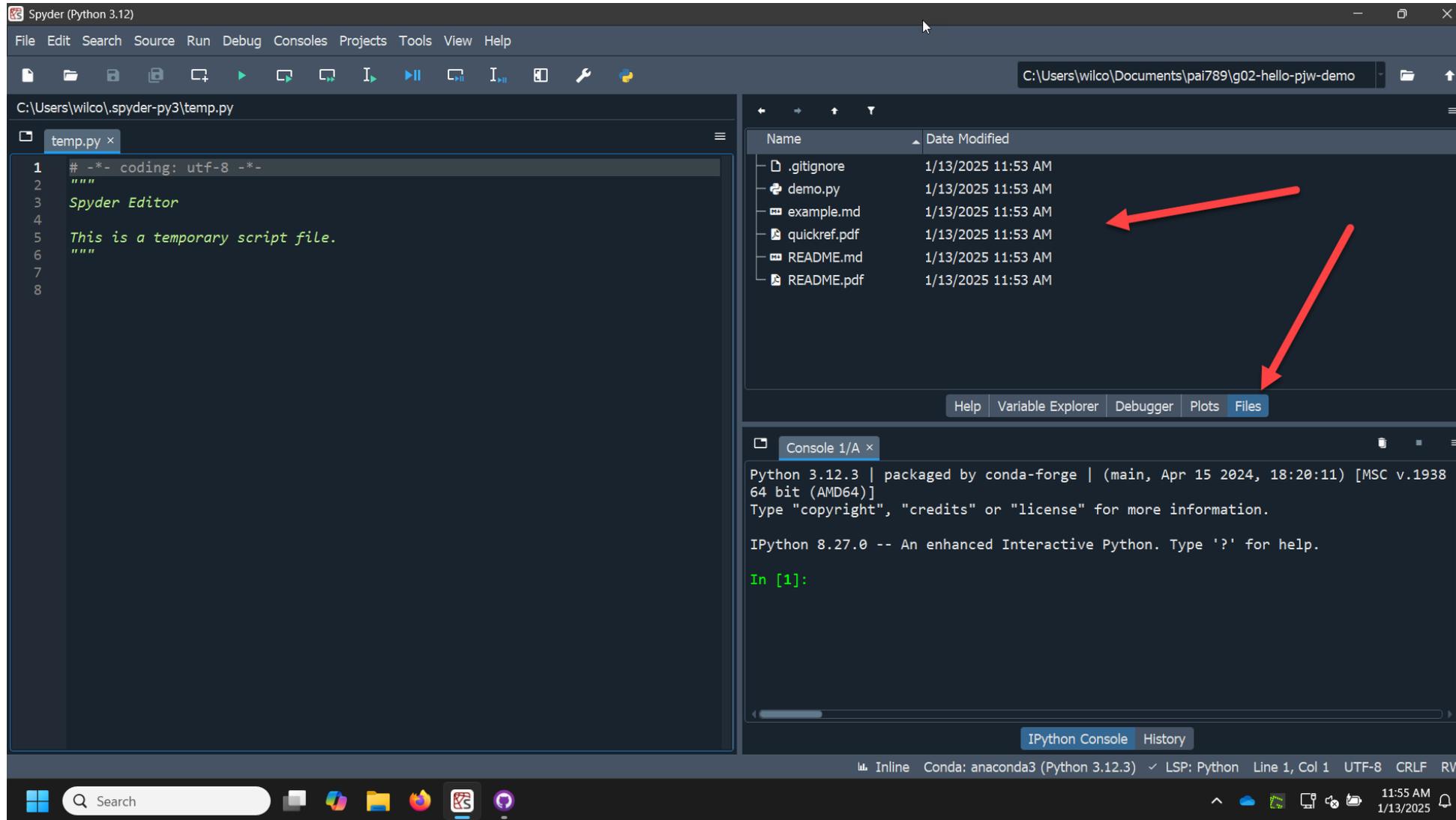
# Key parts of the interface



# After setting the directory to the repository



# Opening the file selector



# After loading the file and switching to the variable pane

The screenshot displays the Spyder Python IDE interface. The left pane shows a code editor with a Python script named `demo.py`. The script contains a docstring, comments, and code for string concatenation and arithmetic operations. A red arrow points to the `demo.py` tab. The right pane shows the Variable Explorer, which is currently empty, displaying the message "No variables to show" and a prompt to run code. Below the Variable Explorer is the IPython console, which shows the environment information and the start of an interactive session. The bottom status bar indicates the current environment is Conda: anaconda3 (Python 3.12.3) and the cursor is at Line 1, Col 1.

```
1 """  
2 demo.py  
3 Spring 2022 PJW  
4  
5 Demonstrate some basic operations with strings and files.  
6 """  
7  
8 #  
9 # Example of string concatenation  
10 #  
11  
12 s1 = "The"  
13 s2 = "Maxwell"  
14 s3 = "School"  
15  
16 name = s1+" "+s2+" "+s3  
17  
18 print("Printing it to the screen:")  
19 print(name)  
20  
21 #  
22 # Concatenating strings vs adding numbers  
23 #  
24  
25 s20 = '20'  
26 s25 = '25'  
27 year = s20+s25  
28  
29 print( year )  
30  
31 n20 = 20  
32 n25 = 25  
33 total = n20+n25  
34
```

Variable Explorer: No variables to show

Console 1/A x

```
Python 3.12.3 | packaged by conda-forge | (main, Apr 15 2024, 18:20:11) [MSC v.1938  
64 bit (AMD64)]  
Type "copyright", "credits" or "license" for more information.  
  
IPython 8.27.0 -- An enhanced Interactive Python. Type '?' for help.  
  
In [1]:
```

# Handy way to set the working directory later

The image shows the Spyder Python IDE interface. The main editor window displays a Python script with the following code:

```
1 """  
2 demo.py  
3 Spring 2020  
4 Demonstration  
5 """  
6  
7  
8  
9  
10  
11  
12  
13 s2 = "Max"  
14 s3 = "Sch"  
15  
16 name = s1 + s2 + s3  
17  
18 print("Print name")  
19 print(name)  
20  
21 # Concatenate strings  
22 #  
23 #  
24  
25 s20 = '20'  
26 s25 = '25'  
27 year = s20 + s25  
28  
29 print(year)  
30  
31 n20 = 20  
32 n25 = 25  
33 total = n20+n25  
34
```

A right-click context menu is open over the file name 'demo.py' in the editor. The menu items include:

- Go to line... (Ctrl+L)
- Set console working directory
- Show in external file explorer
- File switcher... (Ctrl-)
- Symbol finder... (Ctrl-)
- Copy absolute path
- Copy relative path
- Close all to the right
- Close all but this
- Sort tabs alphabetically
- Split vertically
- Split horizontally
- Close this panel
- New window
- Move
- Undock
- Close

Two red callout boxes provide instructions:

- A box on the left says "Right click on file name" with an arrow pointing to the file name in the editor.
- A box on the right says "Set working directory to home of this file" with an arrow pointing to the "Set console working directory" menu item.

The bottom status bar of the IDE shows: "Set current console (and file explorer) working directory to current script directory". The console window at the bottom displays the IPython prompt and the output of the script execution.

# Buttons for running some or all of the script

