

# Intro to Jupyterlab

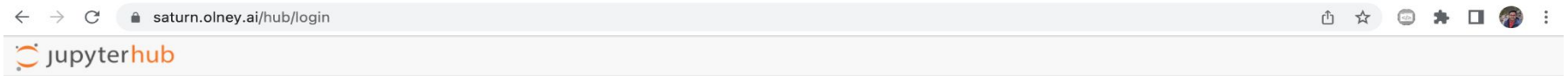
A guide to the jupyterlab user interface

# Objectives :

- Learn about the Jupyterlab environment
- Practice basic tasks in Jupyterlab

# Login to Jupyterlab

- Logging In to jupyterlab at **saturn.olney.ai**



Sign in

**Username:**

**Password:**

Sign in

←

→

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🔒 saturn.olney.ai/user/hmshrque/lab/workspaces/cache

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File Edit View Run Kernel Tabs Settings Help

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Name	Last Modified
datawhys-content-dpl...	8 hours ago
datawhys-intern-note...	20 days ago
Identifying Common E...	a day ago
Untitled.ipynb	a day ago
Untitled1.ipynb	12 minutes ago


🔍 📄 📁 ☰


🔖 Launcher


📖 Notebook


Python 3


Python [conda env:macaw-


Python [conda env:root] \*


R

R [conda env:root] \*


SoS [conda env:macaw-


xpython


xpython [conda env:macaw-


xpython [conda env:root] \*


📄 Console


Python 3


Python [conda env:macaw-


Python [conda env:root] \*


R

R [conda env:root] \*

SoS [conda env:macaw-

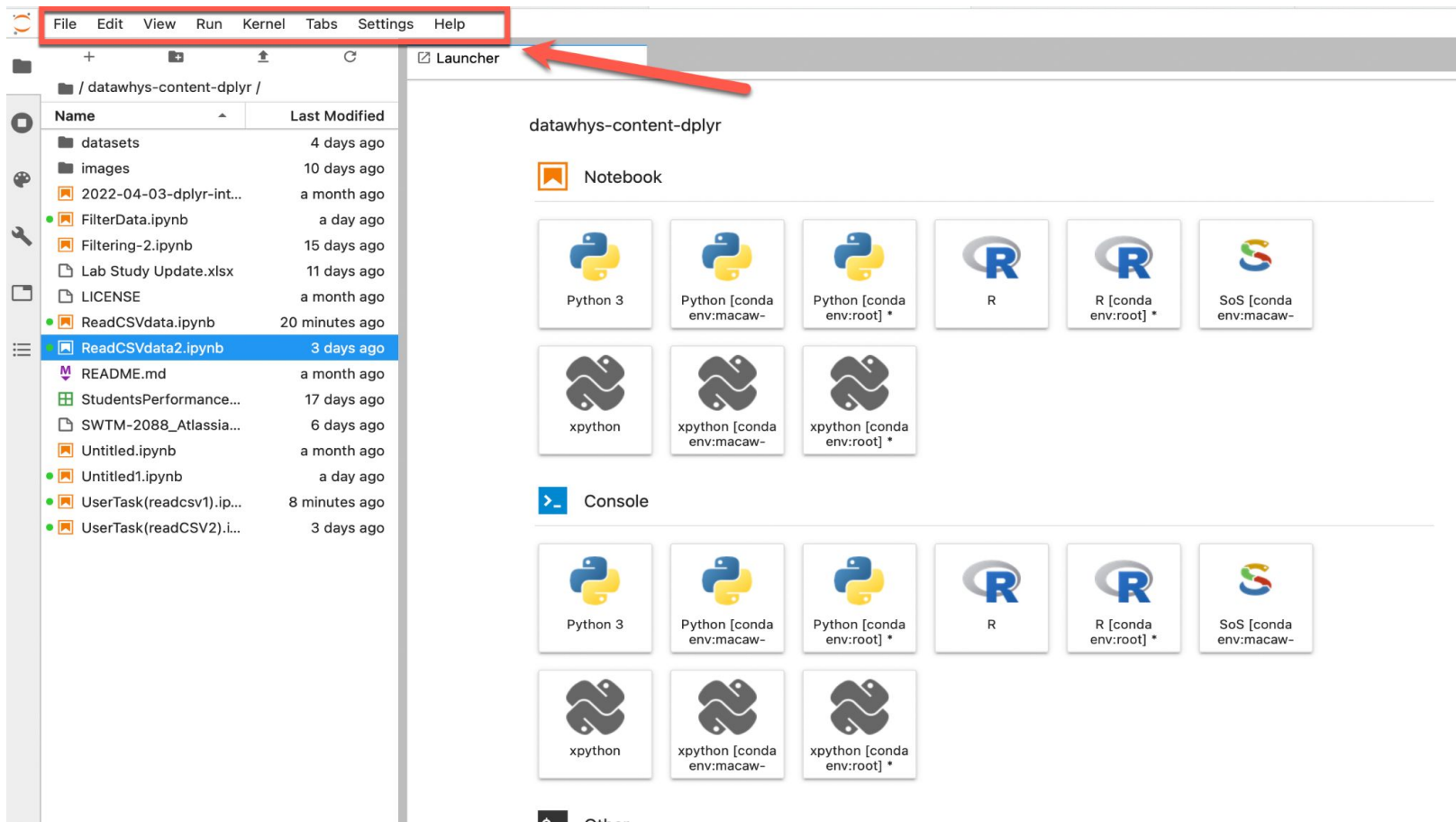
xpython

xpython [conda env:macaw-

xpython [conda env:root] \*

\$\_ Other

# The Menu Bar



# The toolbar

The screenshot displays the Saturn IDE interface. The top navigation bar includes a menu (File, Edit, View, Run, Kernel, Tabs, Settings, Help) and a toolbar. The toolbar contains icons for file operations: a folder icon, a plus sign, a document icon, an upload icon, and a refresh icon. A red circle highlights the folder icon, plus sign, document icon, and refresh icon. A red arrow points from the 'Launcher' tab to the folder icon. The left sidebar shows a file explorer with a table of files and folders.

Name	Last Modified
datawhys-content-dpl...	8 hours ago
datawhys-intern-note...	20 days ago
Identifying Common E...	a day ago
Untitled.ipynb	a day ago
Untitled1.ipynb	12 minutes ago

The main workspace is divided into two sections: 'Notebook' and 'Console'. Each section displays a grid of environment icons for Python, R, and SoS, with options for different conda environments (e.g., Python 3, Python [conda env:macaw-], Python [conda env:root] \*).

# The Left Panel(side bar)

The screenshot displays the Saturn IDE interface. The left sidebar is highlighted with a red box and a red arrow pointing to it. The sidebar contains a file explorer with a table of files and folders. The main workspace is divided into two panels: 'Launcher' and 'Console'. The 'Launcher' panel shows a grid of environment icons for Notebook and Console. The 'Console' panel shows a grid of environment icons for Console.

File Explorer Table:

Name	Last Modified
/	
datawhys-content-dpl...	8 hours ago
datawhys-intern-note...	20 days ago
Identifying Common E...	a day ago
Untitled.ipynb	a day ago
Untitled1.ipynb	12 minutes ago

Launcher Panel:

- Notebook
  - Python 3
  - Python [conda env:macaw-]
  - Python [conda env:root] \*
  - R
  - R [conda env:root] \*
  - SoS [conda env:macaw-]
- Console
  - Python 3
  - Python [conda env:macaw-]
  - Python [conda env:root] \*
  - R
  - R [conda env:root] \*
  - SoS [conda env:macaw-]

Other Panel:

- \$ \_ Other

# Folder Structure in Jupyterlab

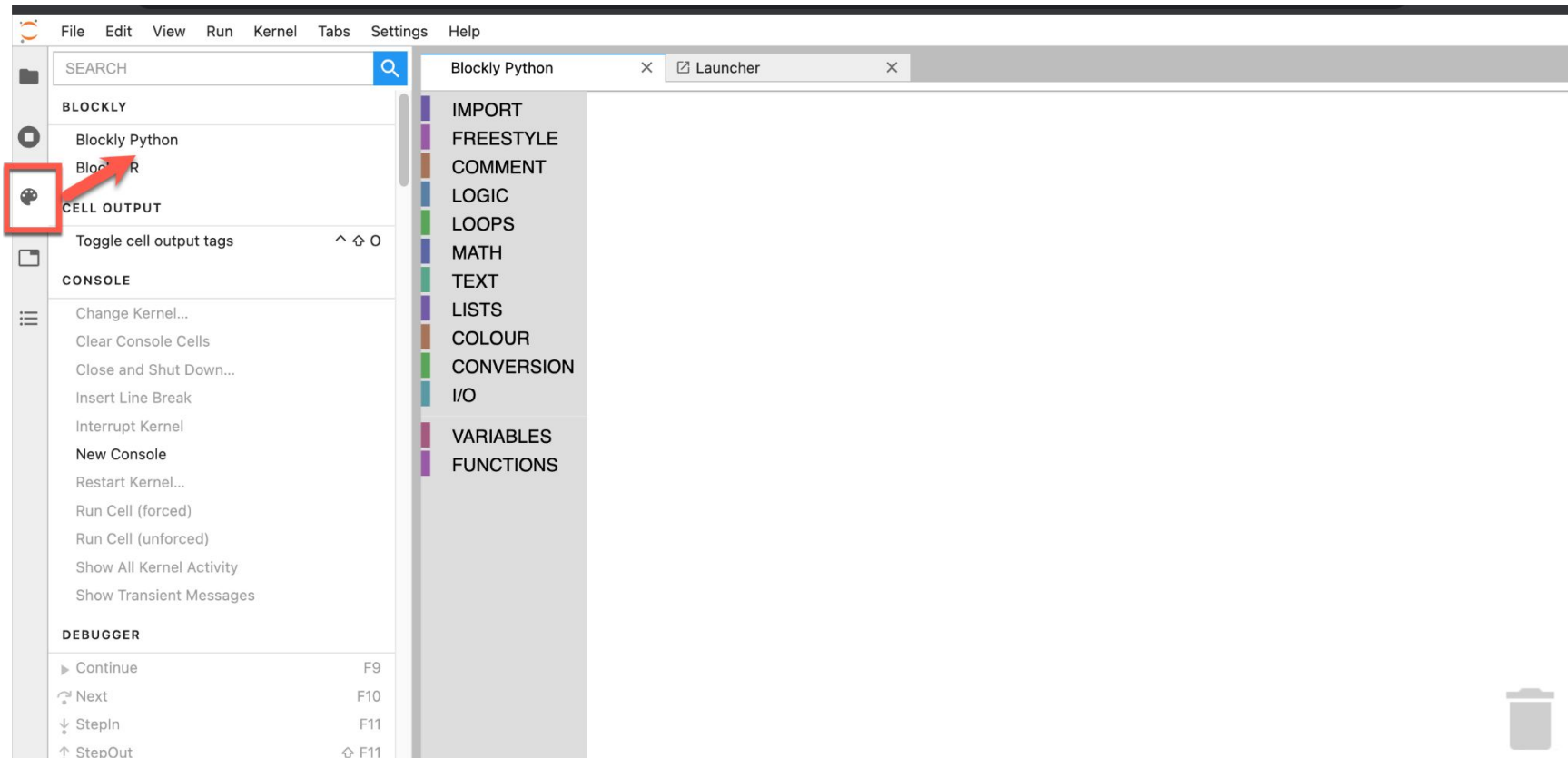
The screenshot displays the Jupyterlab interface. On the left, the 'Launcher' tab is active, showing a file browser. A red rectangle highlights the file list, which includes:

Name	Last Modified
datawhys-content-dpl...	8 hours ago
datawhys-intern-note...	20 days ago
Identifying Common E...	a day ago
Untitled.ipynb	a day ago
Untitled1.ipynb	12 minutes ago

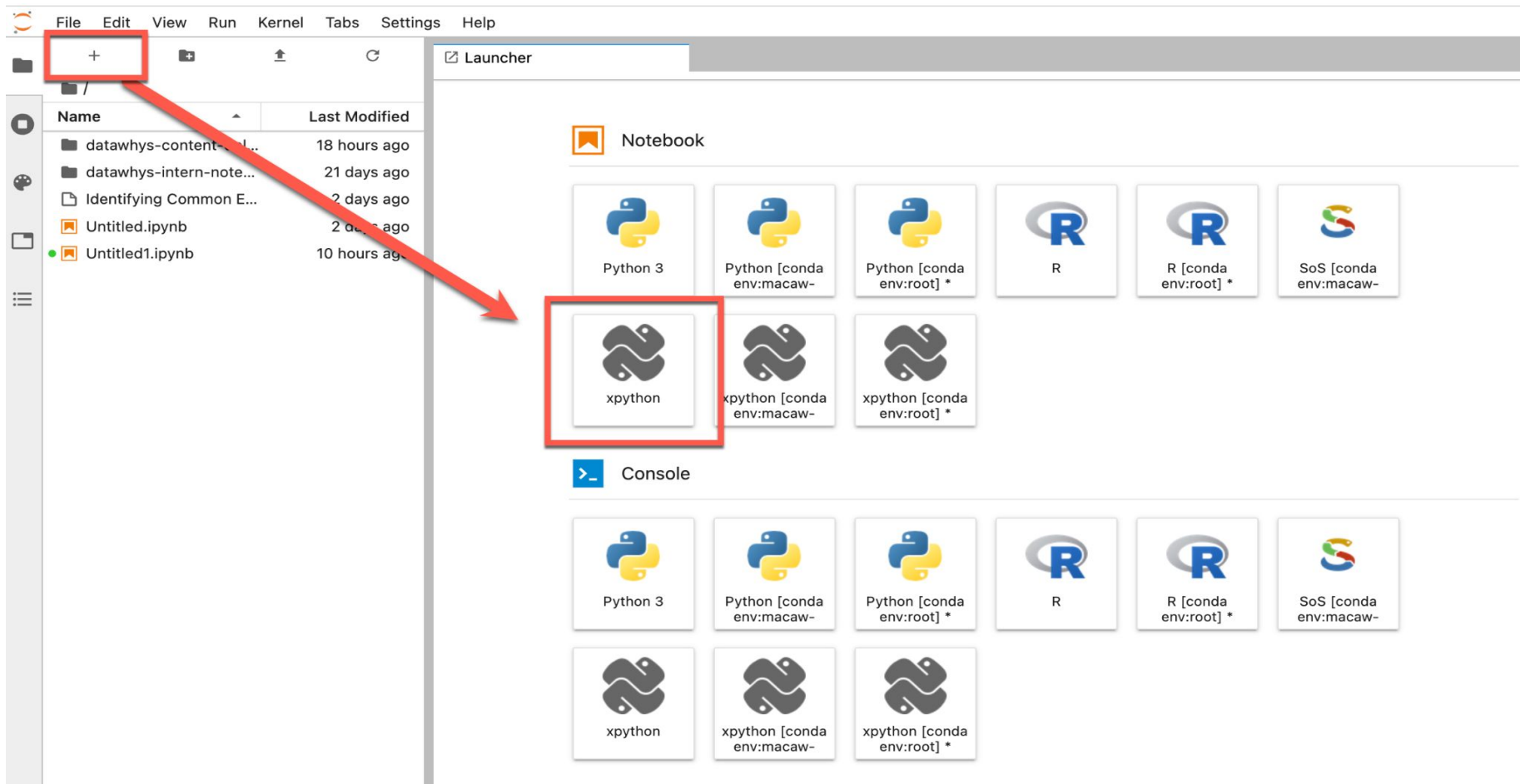
The main area of the interface is divided into two sections: 'Notebook' and 'Console'. Each section contains a grid of environment icons for launching new notebooks or consoles. The 'Notebook' section includes icons for Python 3, Python [conda env:macaw-], Python [conda env:root] \*, R, R [conda env:root] \*, and SoS [conda env:macaw-]. The 'Console' section includes icons for xpython, xpython [conda env:macaw-], xpython [conda env:root] \*, and the same Python, R, and SoS environments. The 'Other' section at the bottom is currently empty.



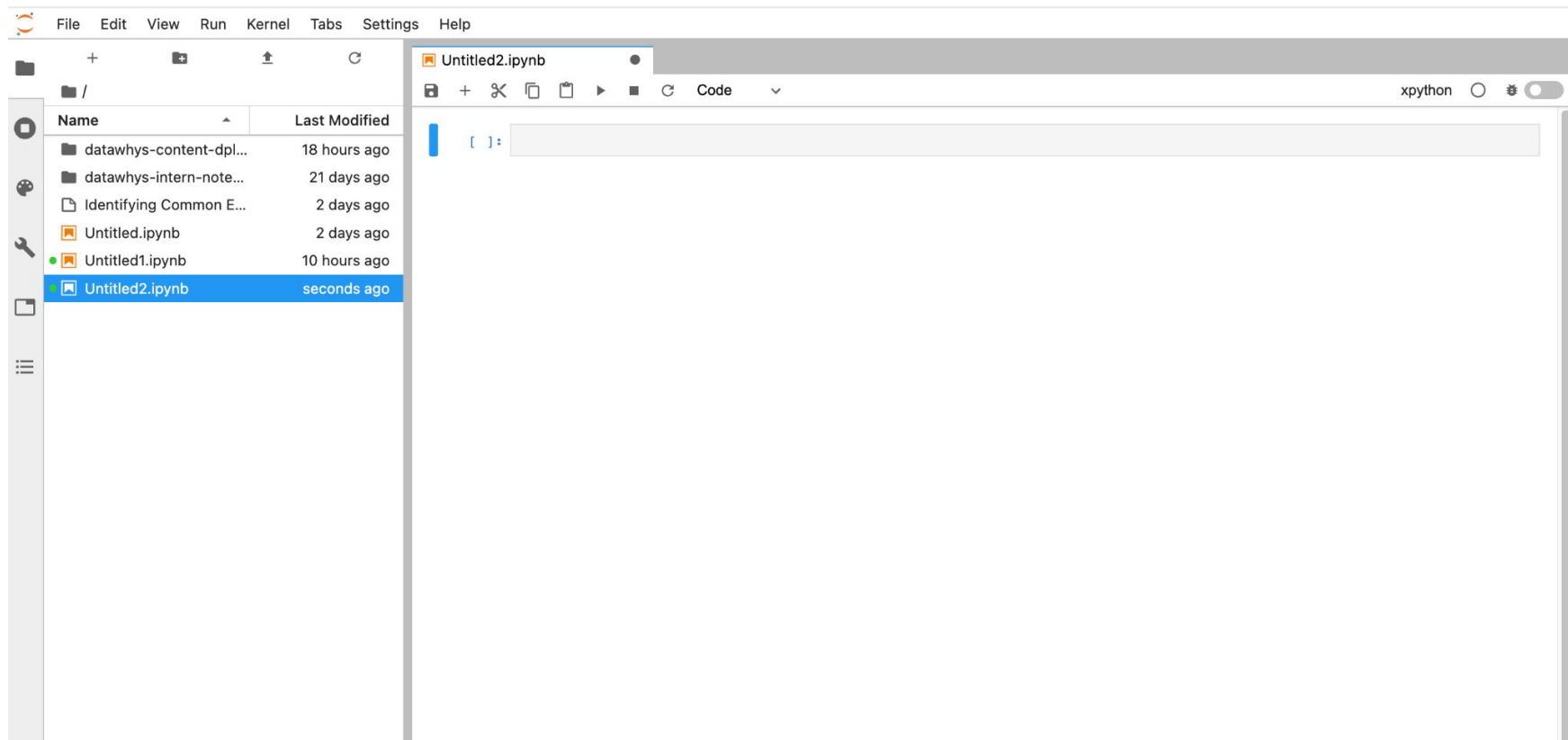
# The Blockly Palette



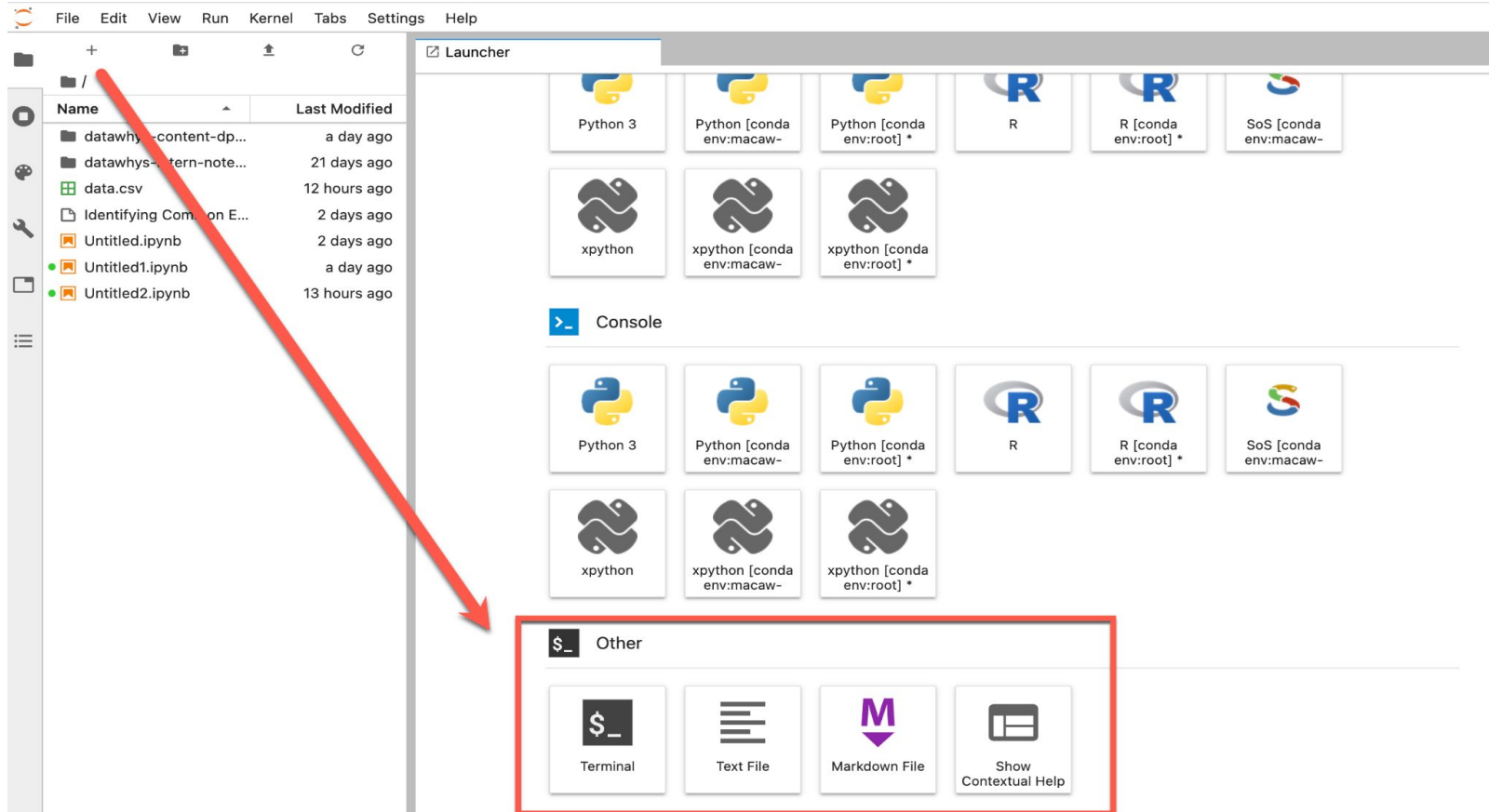
# Opening python file from launcher (1)



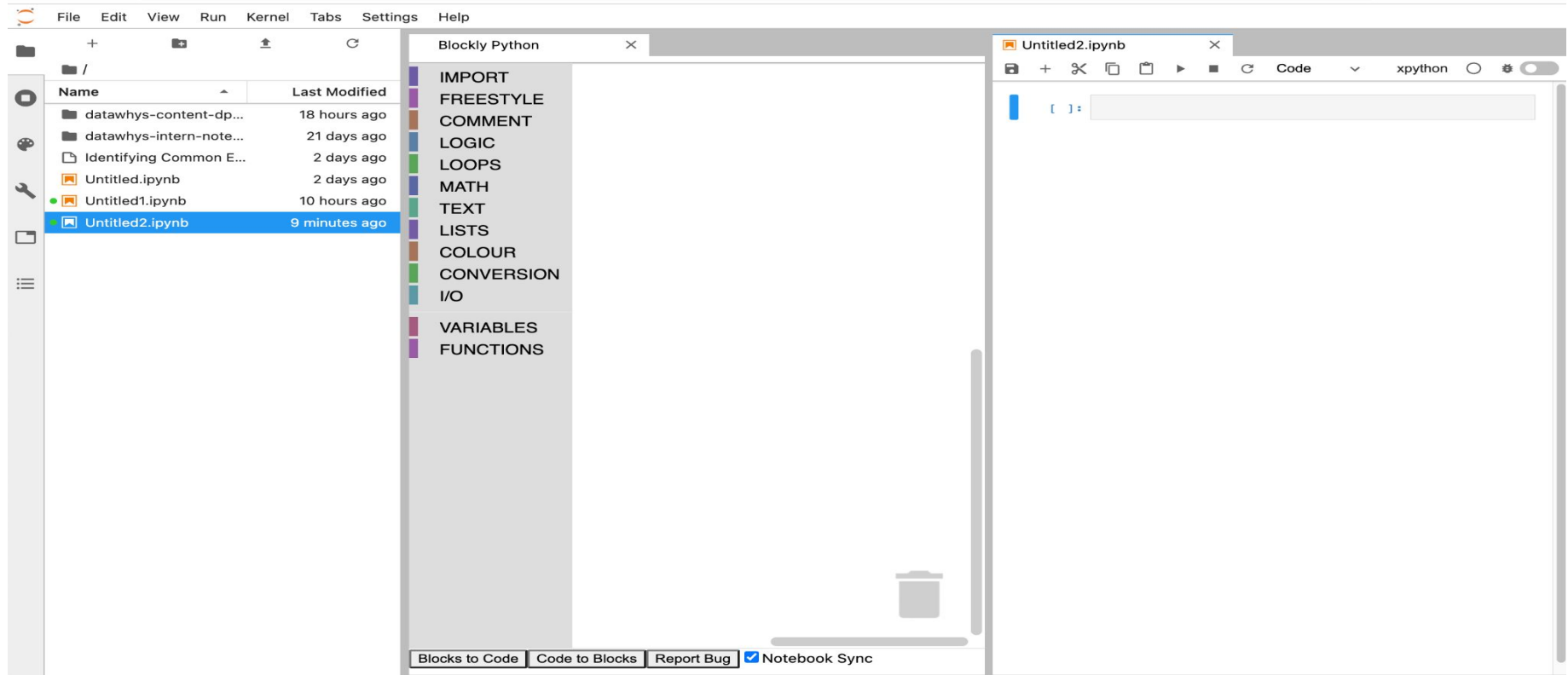
# Opening python file from launcher(2)



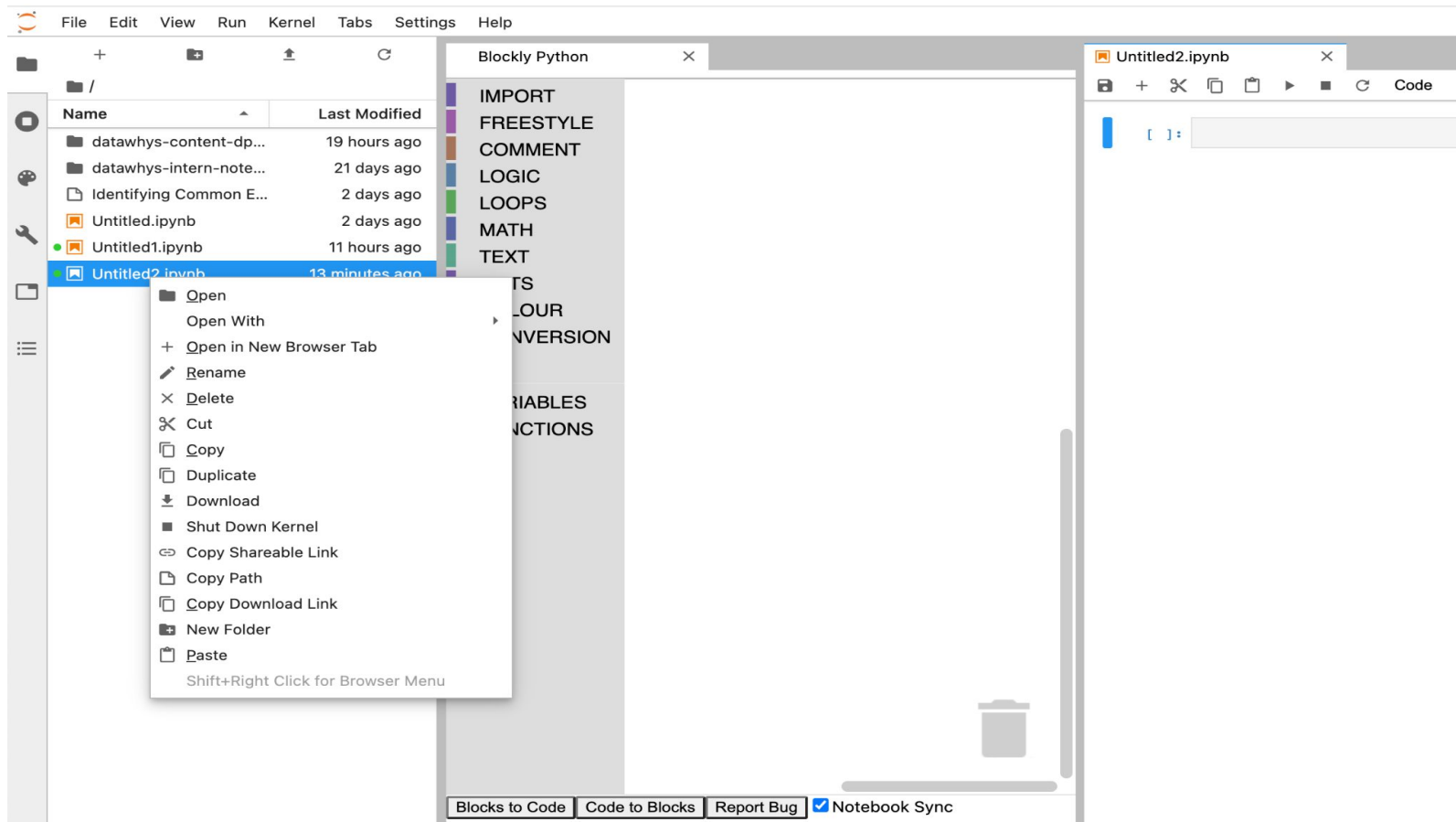
# Opening other file types



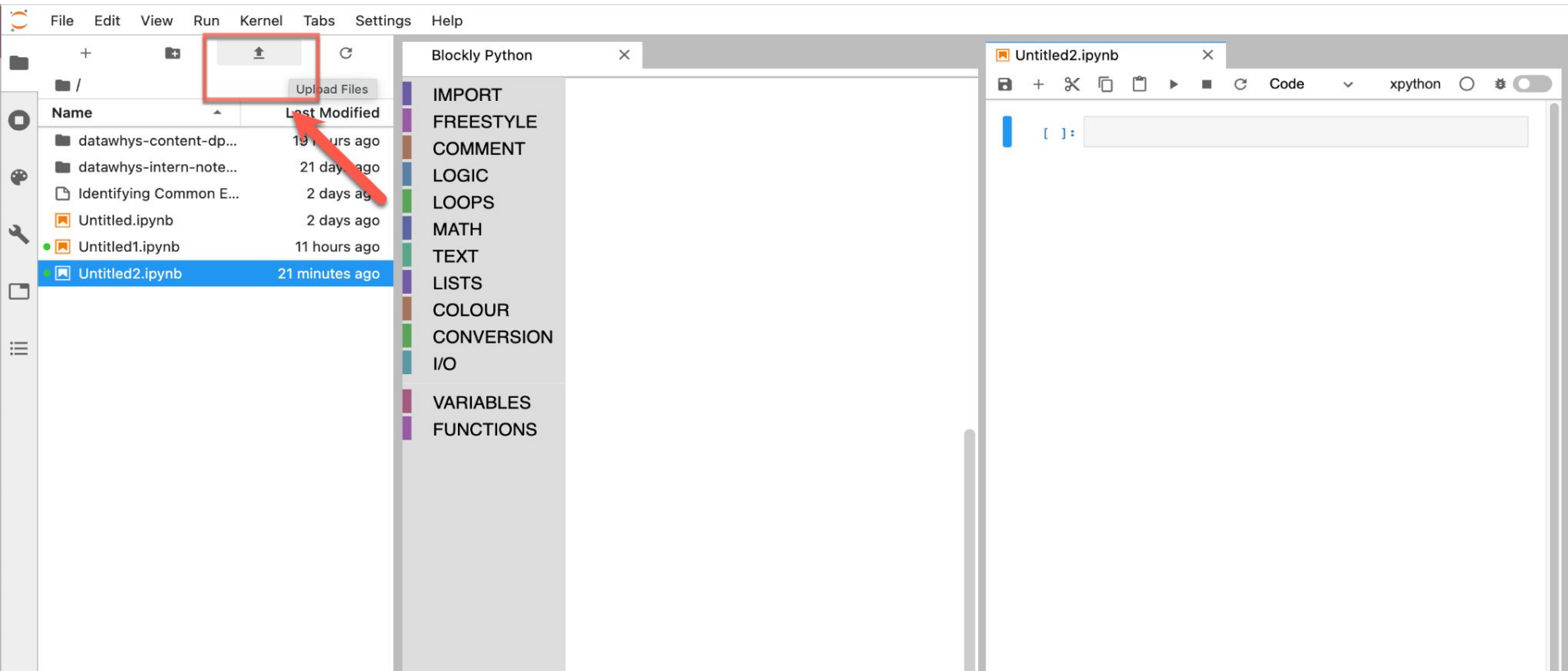
# Viewing blockly and python file side by side



# File Operations



# Uploading a file in Jupyterlab (1)



# Uploading a file in Jupyterlab (2)

The screenshot displays the Jupyterlab interface. On the left, the file browser shows a directory structure with files like 'data.csv' (highlighted with a red box) and several 'Untitled.ipynb' files. The central area is the code editor, currently showing a blank 'Untitled2.ipynb' file. On the right, a sidebar lists various code blocks: IMPORT, FREESTYLE, COMMENT, LOGIC, LOOPS, MATH, TEXT, LISTS, COLOUR, CONVERSION, I/O, VARIABLES, and FUNCTIONS.

File Browser:

Name	Last Modified
dataawhys-content-dp...	19 hours ago
dataawhys-intern-note...	21 days ago
data.csv	seconds ago
Identifying Common E...	2 days ago
Untitled.ipynb	2 days ago
Untitled1.ipynb	11 hours ago
Untitled2.ipynb	25 minutes ago

Code Editor:

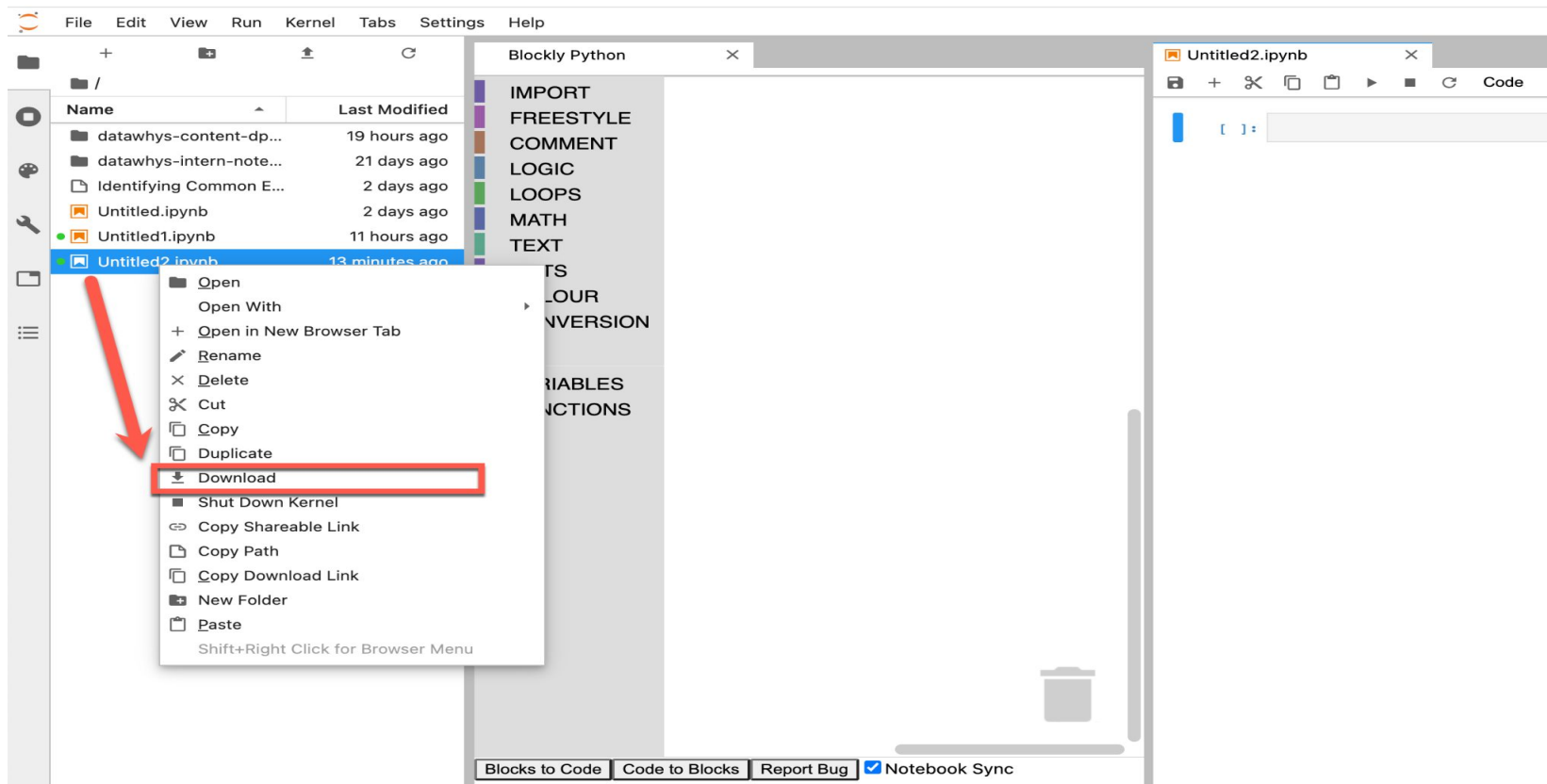
Untitled2.ipynb

Code blocks sidebar:

- IMPORT
- FREESTYLE
- COMMENT
- LOGIC
- LOOPS
- MATH
- TEXT
- LISTS
- COLOUR
- CONVERSION
- I/O
- VARIABLES
- FUNCTIONS



# Downloading a file from Jupyterlab



# Practice Tasks:

- Login into the Jupyterlab system (wd username and password.)
- Open a xpython file from launcher
- Open a block palette from the side panel
- View the blocks and xpython file side by side
- Create a new Folder from the toolbar and name it “Test Folder”.
  - Go the that folder
  - Open a new notebook file from “File” menu
  - Name the file ‘testfile.ipynb’
  - Duplicate the file.
  - Delete the duplicate file
  - Download the ‘test.ipynb’ file in your computer
- Upload the ‘test.ipynb’ file to jupyterlab
- Rename the uploaded file ‘uploadedtest.ipynb’
- Check which files are open from the ‘Kernel’ tab

# Self Practice:

- Login into the Jupyterlab system (wd username and password).
- Open a xpython file from launcher
- Open a block palette from the side panel
- View the blocks and xpython file side by side
- Create a new Folder from the toolbar and name it “New Folder”.
  - Go the that folder
  - Open a new notebook file from “File” menu
  - Name the file ‘newfile.ipynb’
  - Duplicate the file.
  - Delete the duplicate file
  - Download the ‘newfile.ipynb’ file in your computer
- Upload the ‘newfile.ipynb’ file to jupyterlab
- Rename the uploaded file ‘uploaded.ipynb’
- Check which files are open from the ‘Kernel’ tab