Anaconda cloud

How to start your adventure with Python –

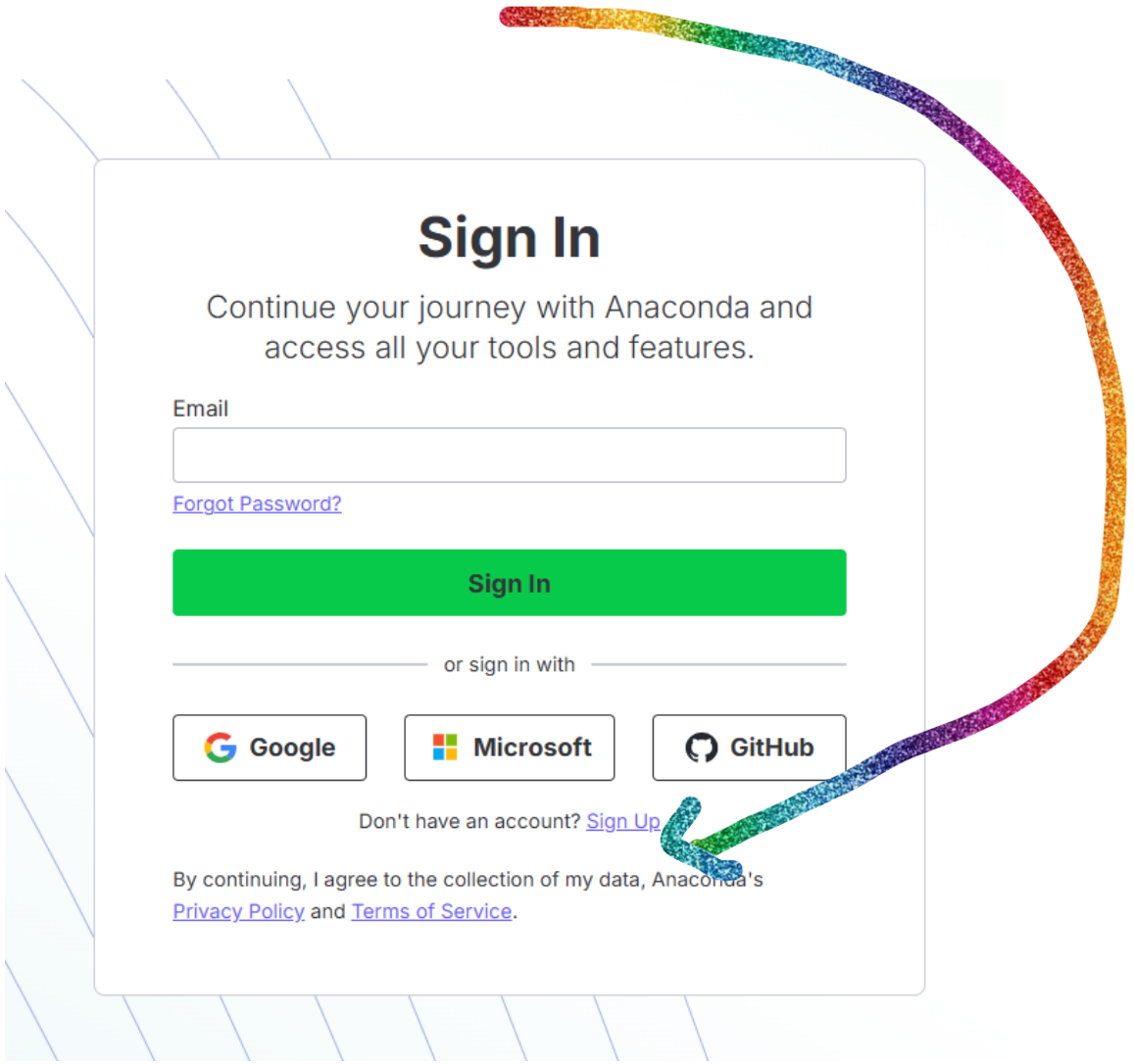
Or how to start working on the tutorials provided

Make a free account on the Anaconda Cloud

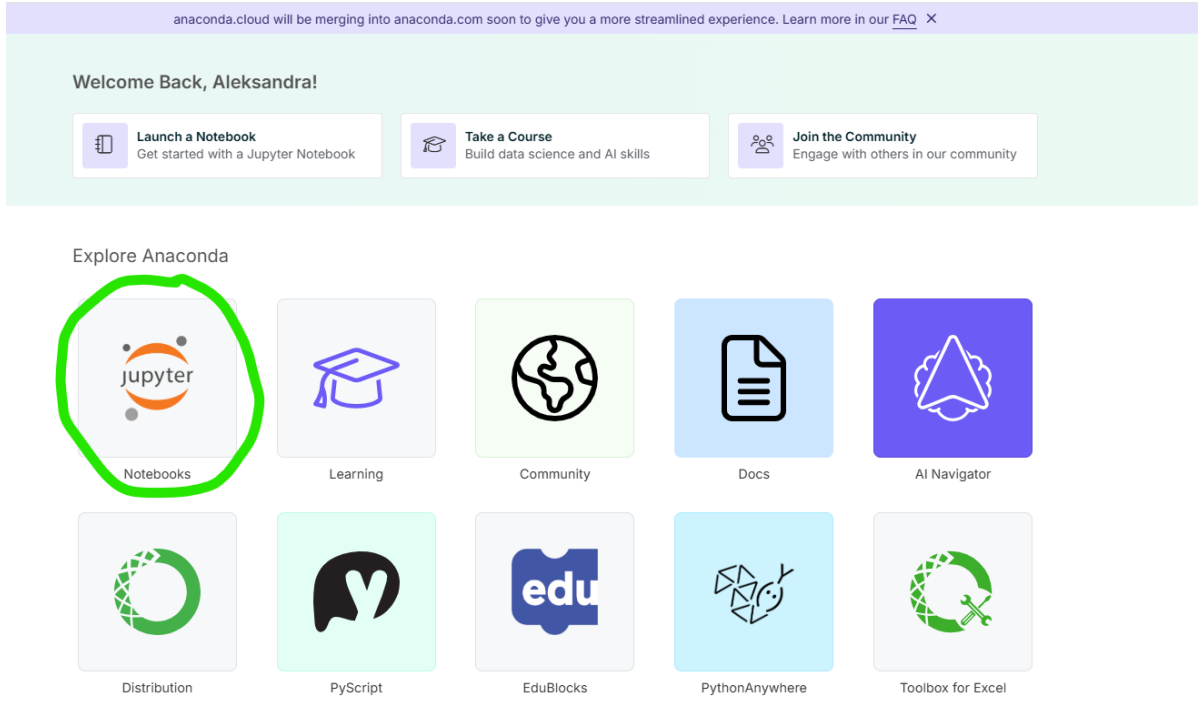
- For this lectures only Anaconda Cloud account is necessary, so that you can do the tutorials in your browser :
- Go here: https://anaconda.cloud/
- Create a free account
- Log in and select Jupyter notebooks (see the next slide)

You can also follow one of the many tutorials on how to download Anaconda distribution (which allows you to run Python on your computer very easily), for instance from here: http://anaconda.com/download. But this is not necessary right now.

Sign in / make account

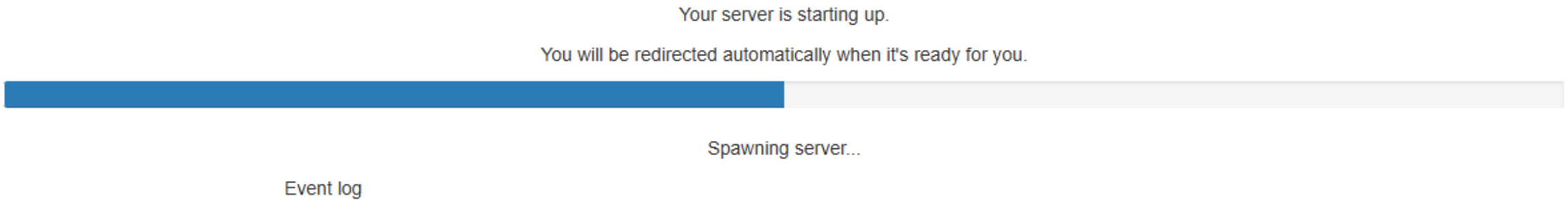


Welcome page;
Select Jupyter notebooks (in green circle)

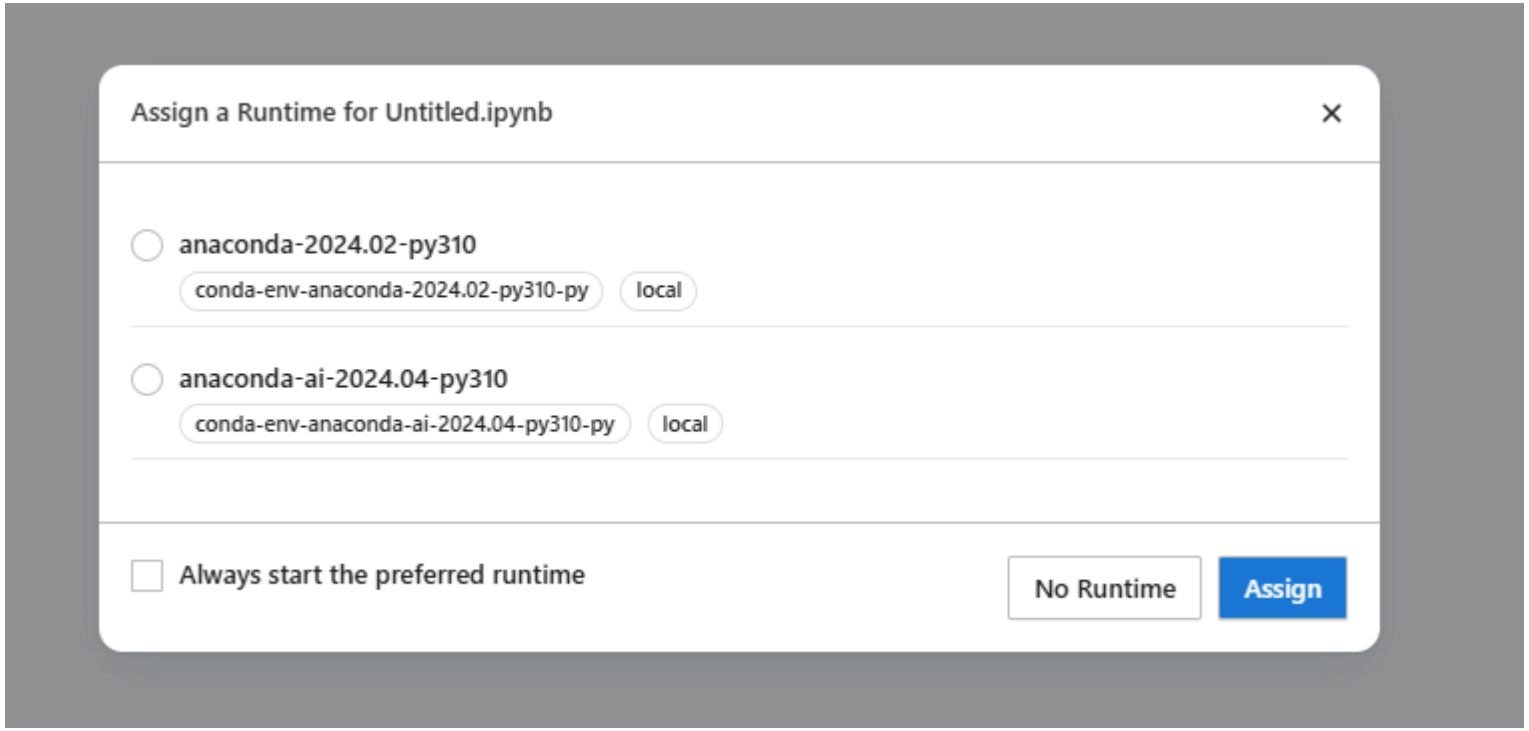


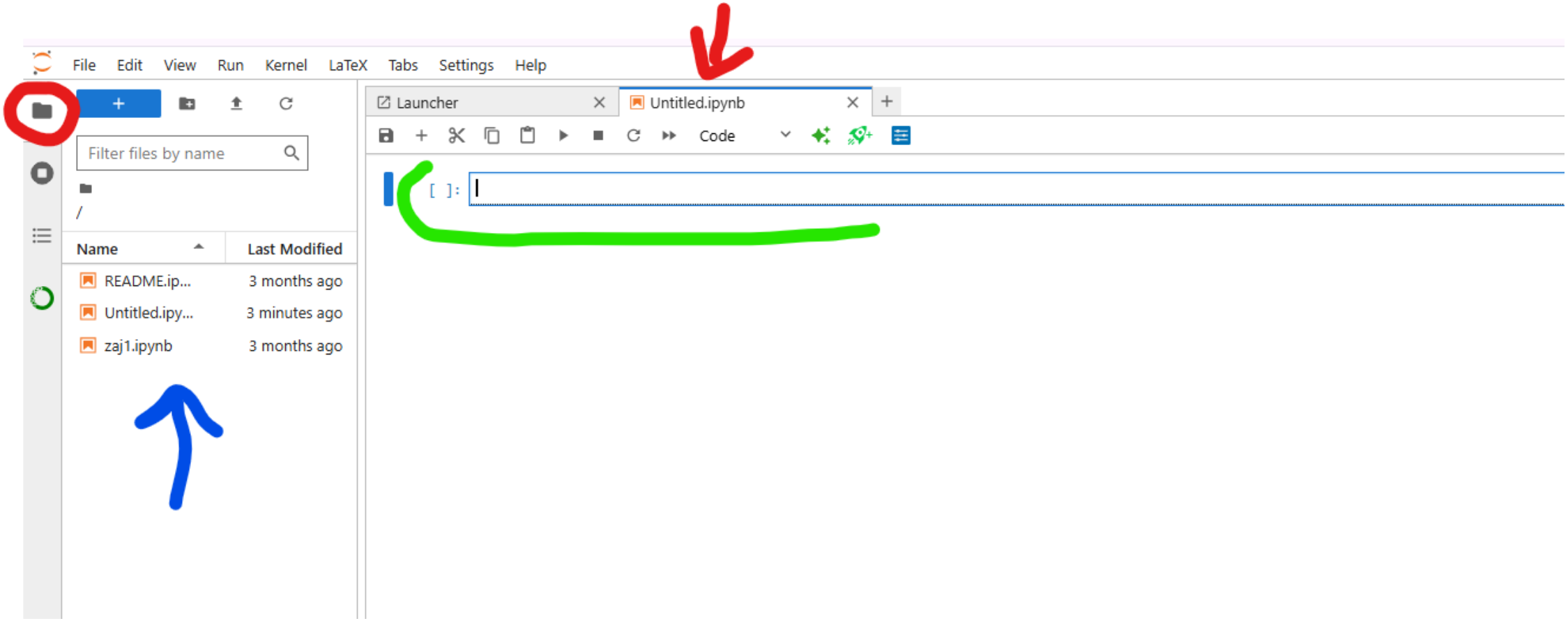
You can listen about jupyter notebook at 17:54 on the lecture

You may see this information – wait to be redirected



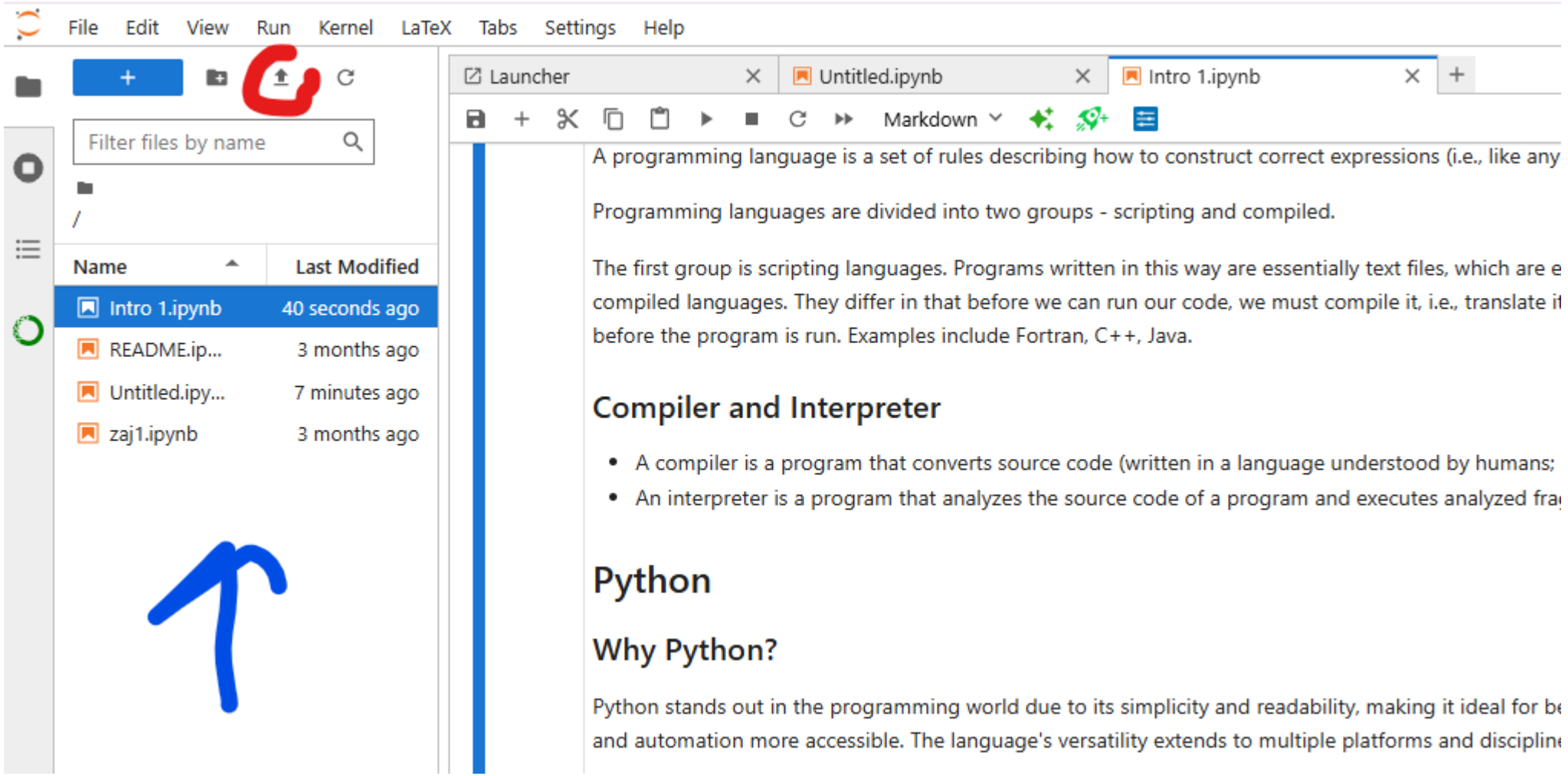
If this window will appear – you can select either option and click on „Assign”





This is how your page should look like.
To open panel on the left, where you can see your data and different notebooks with code (marked with blue arrow), click on the folder icon (in red circle)

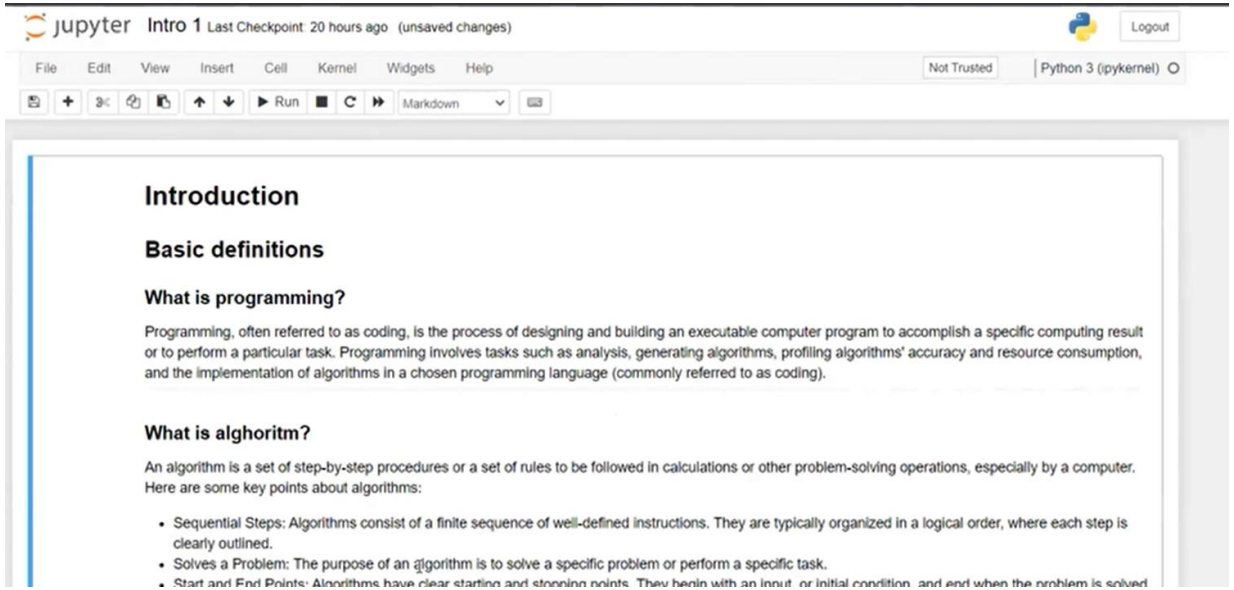
Your code will be in the so-called cells -> first one is marked with green line
Red arrow shows the title of the first notebook.
All jupyter notebooks have extension „.ipynb”



Best way to upload new files (like the tutorials you have downloaded) is to either drag the files over the region marked with blue arrow or to click on arrow (in red circle) that allows you to upload files from specific location

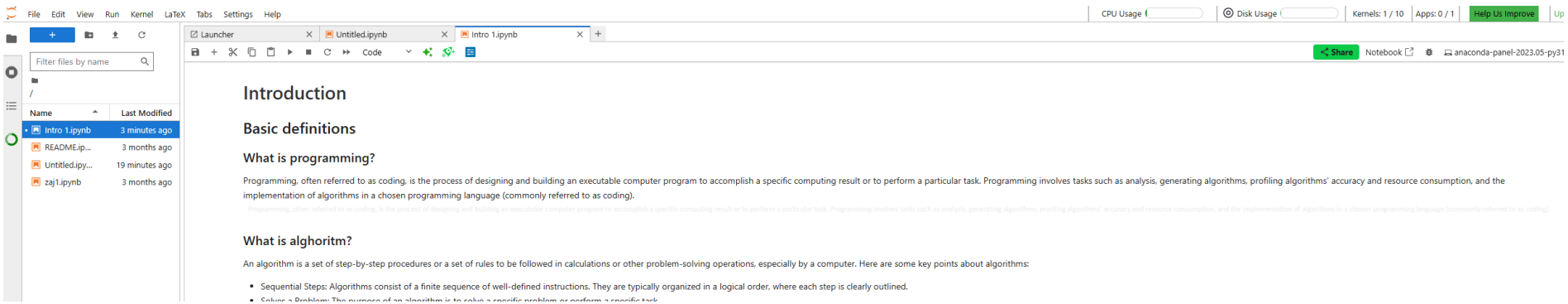
Keep in mind that any files in .zip or .rar folders must be „unpacked” before upload!

First tutorial looks like this in the lecture

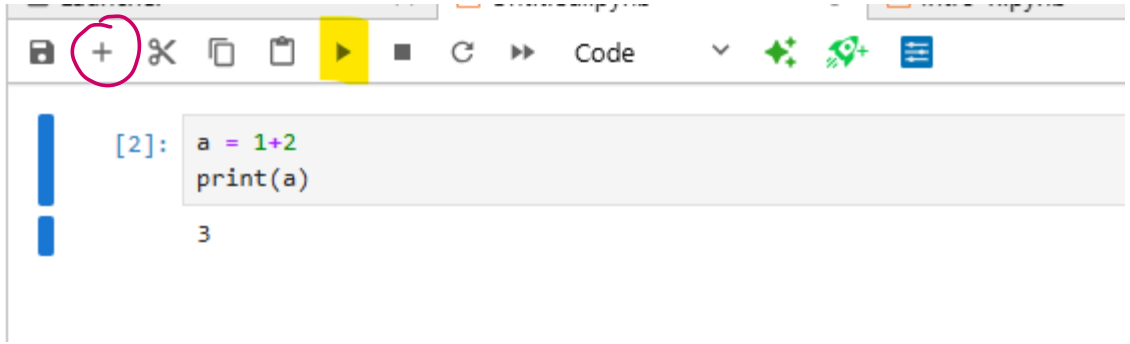


And should look like this if you open it through anaconda cloud

They will work in the same way



- Your code will be in the „cells”
- To run a cel (start the code) you can either use ctrl+enter or click on the triangle at the top (in yellow)
- If your cel has been „run”, you will see a number in the square brackets on the left side
- If there is a star, like this [*] the cell is running



- If you need to add new cell – use the „+” sign (in the circle)

There are some tasks within the code.
For the Intro 1 tutorial:

- While doing the tutorial, pay special attention to tasks 9-12, 20-21, 24-27
- What is the function of the command „input”
- Note the structure of the conditional statemet „if”. Where are the indents and colon?

For the Intro 2 tutorial:

- (to upload the data you can do the same as with jupyter notebooks)
- Pay special attention to the lists and functions that allow you to manipulate them (select elements, adding elements, and so on) – we will use this often!
- Be able to answer the question what are the libraries in python and how to use them; what does the „numpy” library? What does „np” mean when using this library?
- How you can open the .csv files?

For geographic data

You might not be able to install additional packages to see geographic data – you can leave this part of the tutorial

If something is not working – you can stop and start the notebook again

To do that:

1. right-click on the name of the file in the file-space
2. Select shut down kernel
3. This turns off all calculations within this notebook
4. You can run your cells again