IDE

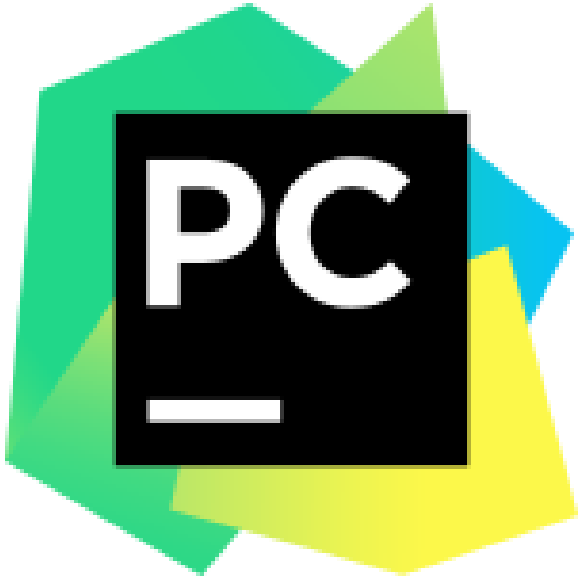
Talk about Pycharm

IDE

An **integrated development environment (IDE)** is **a software application that helps programmers develop software code efficiently**.

It increases developer productivity by combining capabilities such as **software editing**, **building**, **testing**, and **packaging** in an easy-to-use application.

IDE - best solutions



spyder

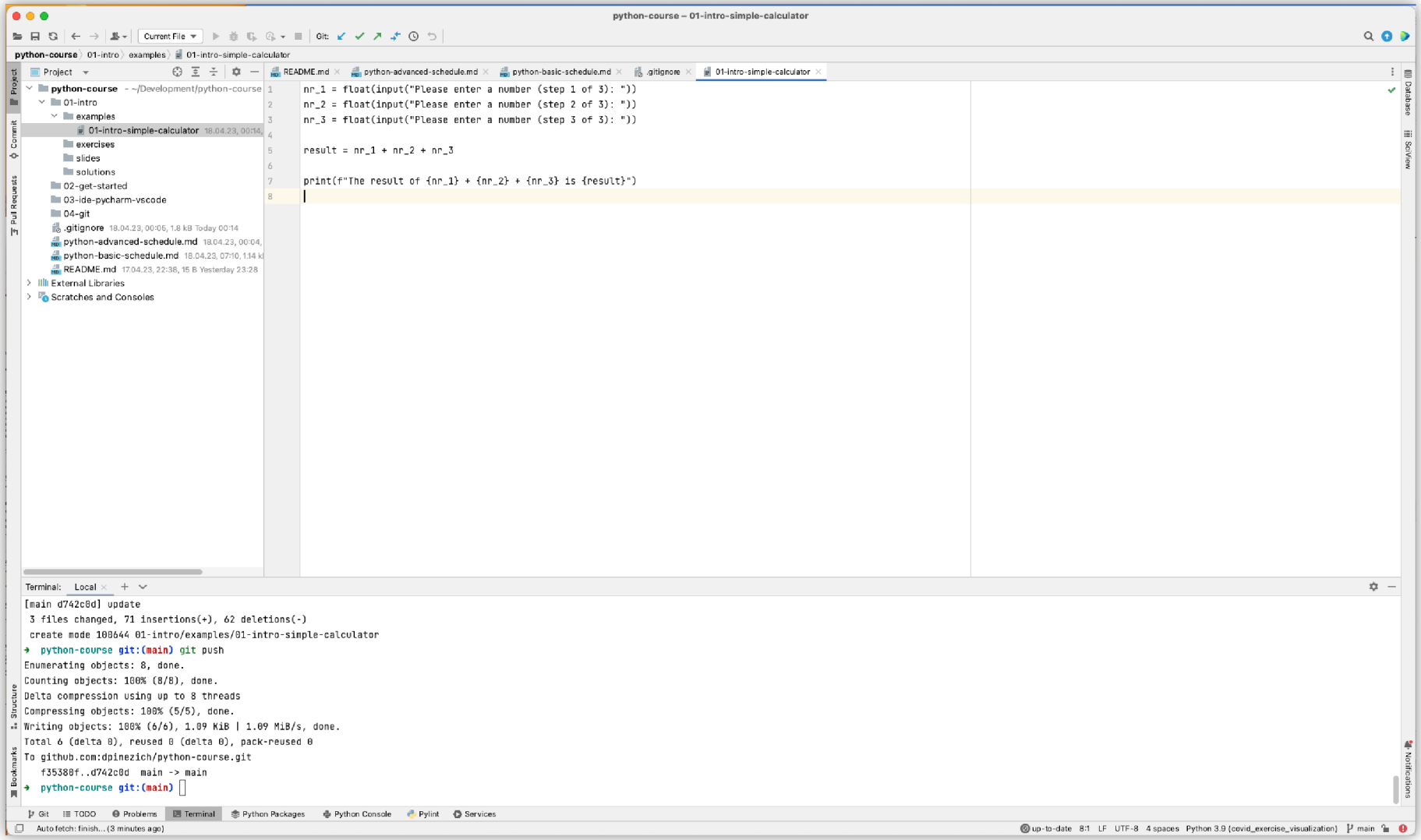
So

Basically it is:

- A console
- A texpad
- A debugger
- A runtime / runtime helper
- Many more tools

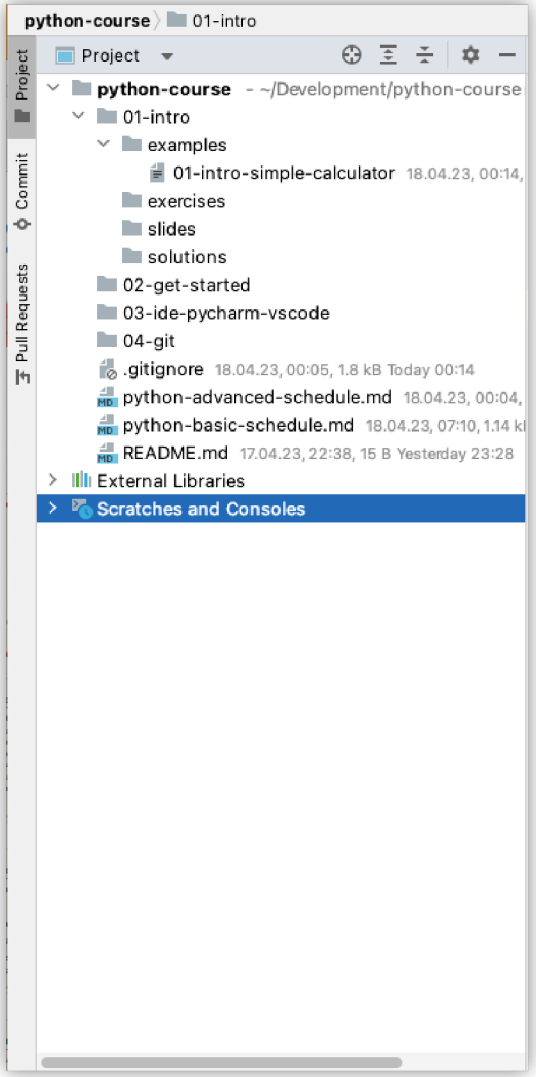
All combined to one window

Pycharm IDE


python-course – 01-intro-simple-calculator
python-course 〉 01-intro 〉 examples 〉 01-intro-simple-calculator
Project
python-course ~/Development/python-course
01-intro
examples
01-intro-simple-calculator 18.04.23, 00:14
exercises
slides
solutions
02-get-started
03-ide-pycharm-vscode
04-git
.gitignore 18.04.23, 00:05, 1.8 kB Today 00:14
python-advanced-schedule.md 18.04.23, 00:04,
python-basic-schedule.md 18.04.23, 07:10, 1.14 kB
README.md 17.04.23, 22:38, 15 B Yesterday 23:28
External Libraries
Scratches and Consoles
README.md
python-advanced-schedule.md
python-basic-schedule.md
.gitignore
01-intro-simple-calculator
nr_1 = float(input("Please enter a number (step 1 of 3): "))
nr_2 = float(input("Please enter a number (step 2 of 3): "))
nr_3 = float(input("Please enter a number (step 3 of 3): "))
result = nr_1 + nr_2 + nr_3
print(f"The result of {nr_1} + {nr_2} + {nr_3} is {result}")
Terminal: Local
[main d742c0d] update
3 files changed, 71 insertions(+), 62 deletions(-)
create mode 100644 01-intro/examples/01-intro-simple-calculator
python-course git:(main) git push
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 1.09 KiB | 1.09 MiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:dpinezich/python-course.git
f35380f..d742c0d main -> main
python-course git:(main)
Git
TODO
Problems
Terminal
Python Packages
Python Console
Pylint
Services
Auto fetch: finish... (3 minutes ago)
up-to-date
8:1
LF
UTF-8
4 spaces
Python 3.9 (covid_exercise_visualization)
main

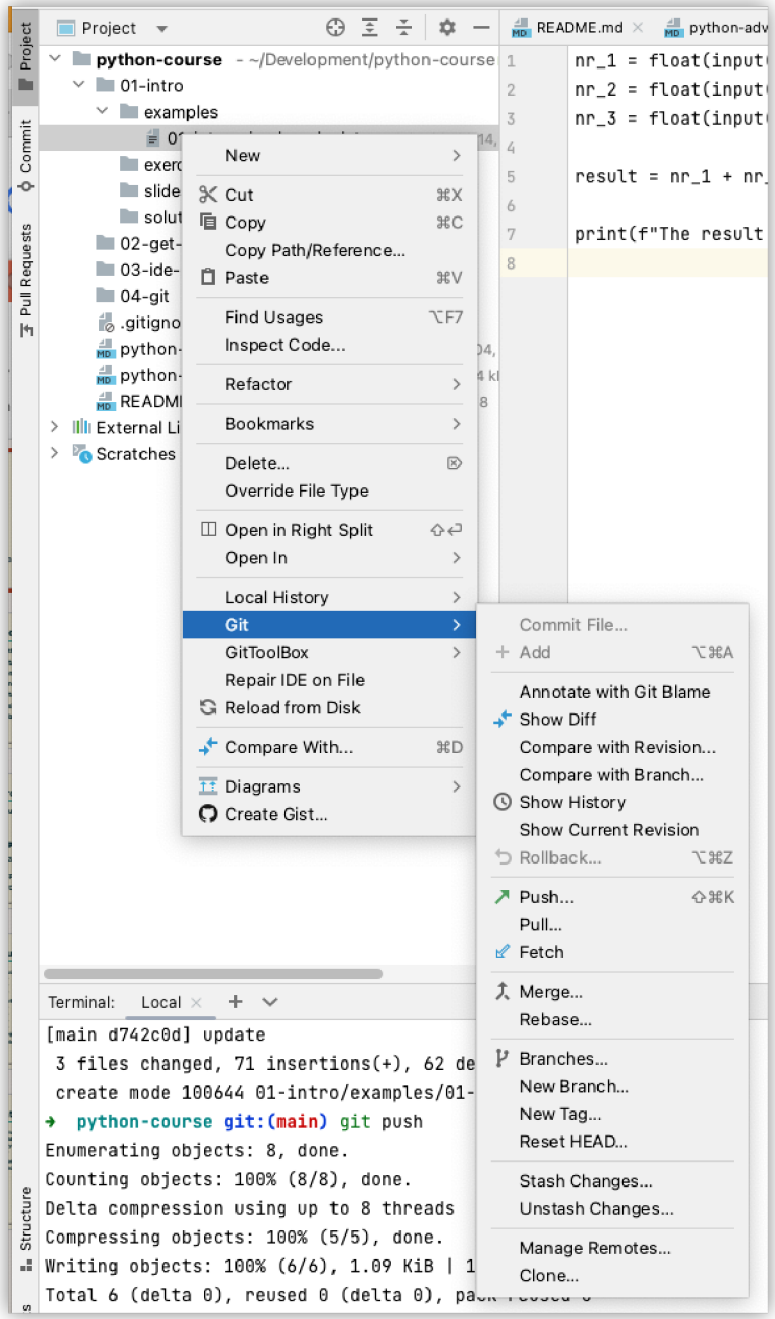
Python IDE

The navigation bar is typically used to navigate.



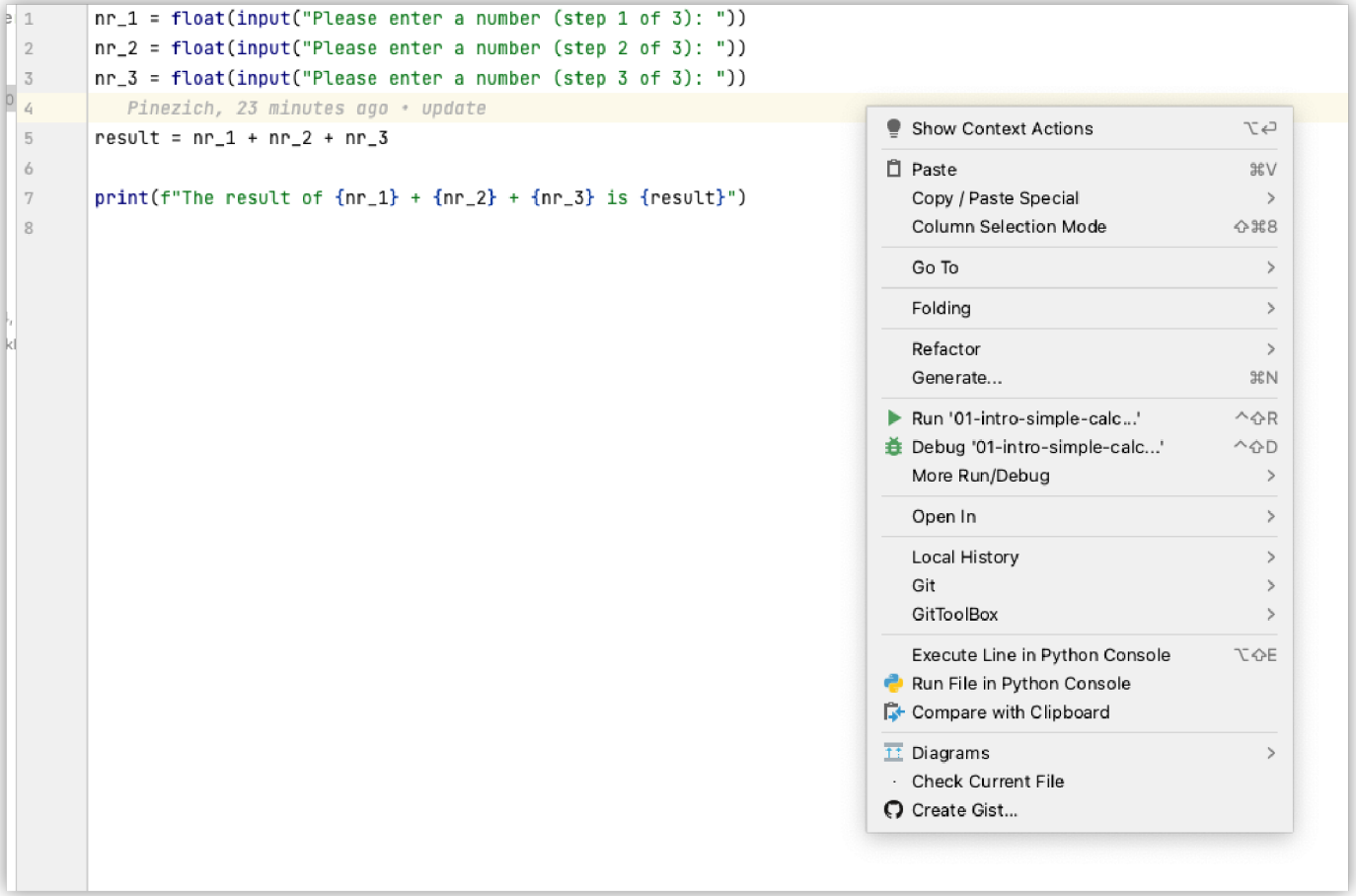
Python IDE

A right-click on a file opens an universal context menu.



Python IDE

It is easy to run a python file from here with a right-click:

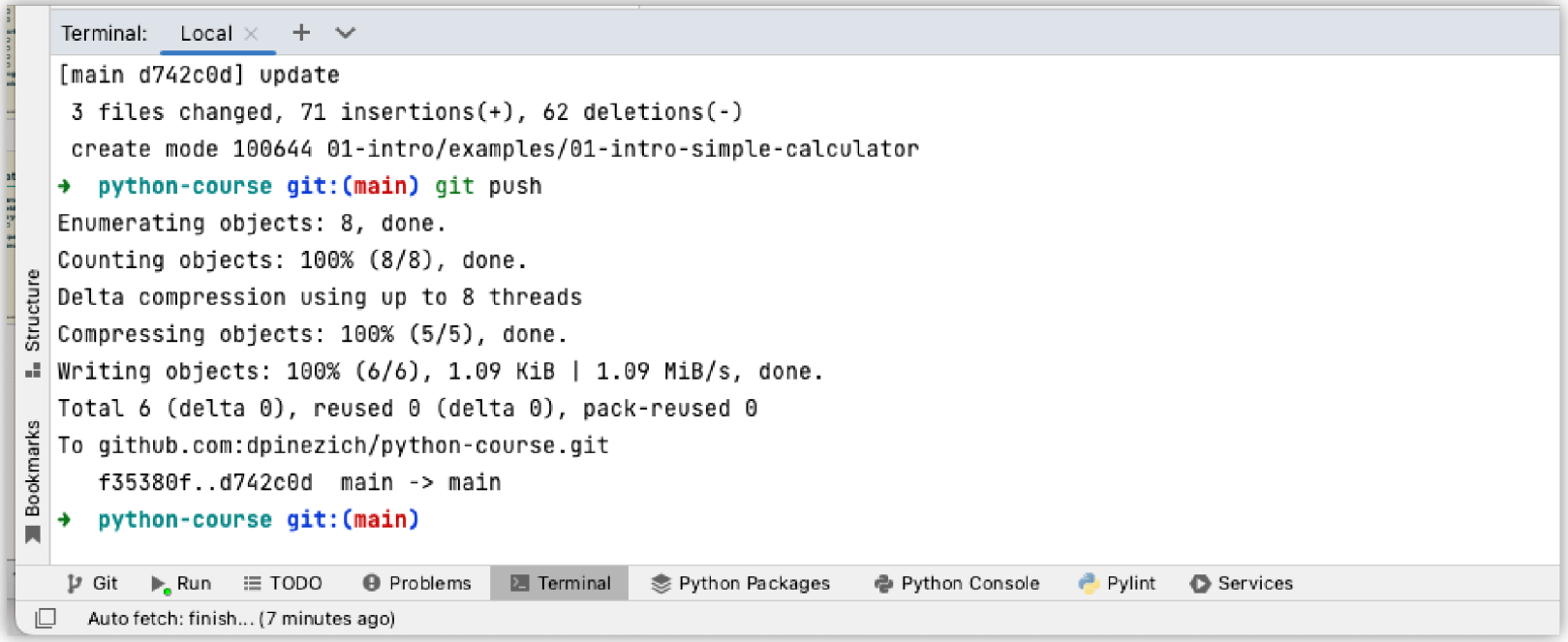


Python IDE

The result is then shown in the "run" console:

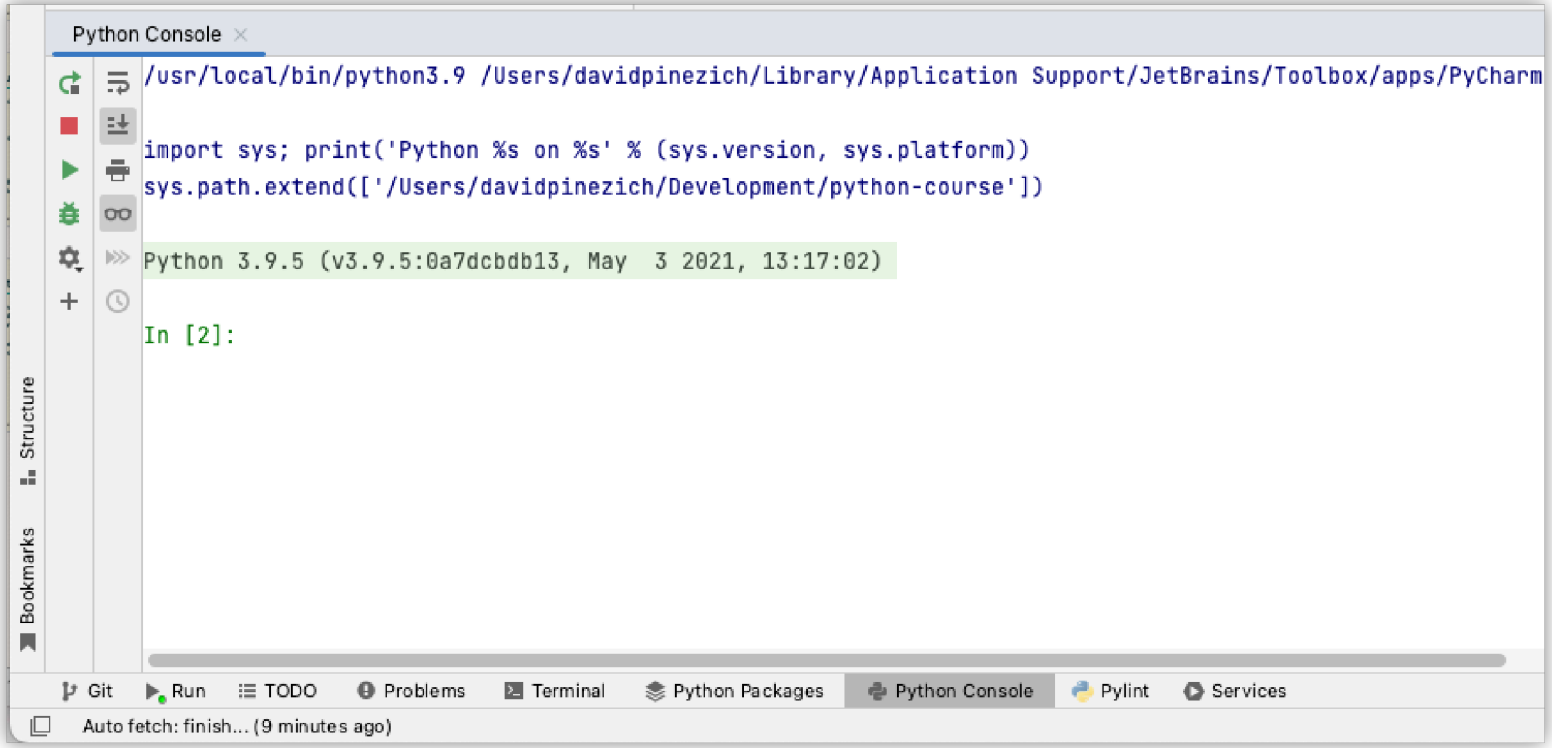
Python IDE

Which also has a terminal:



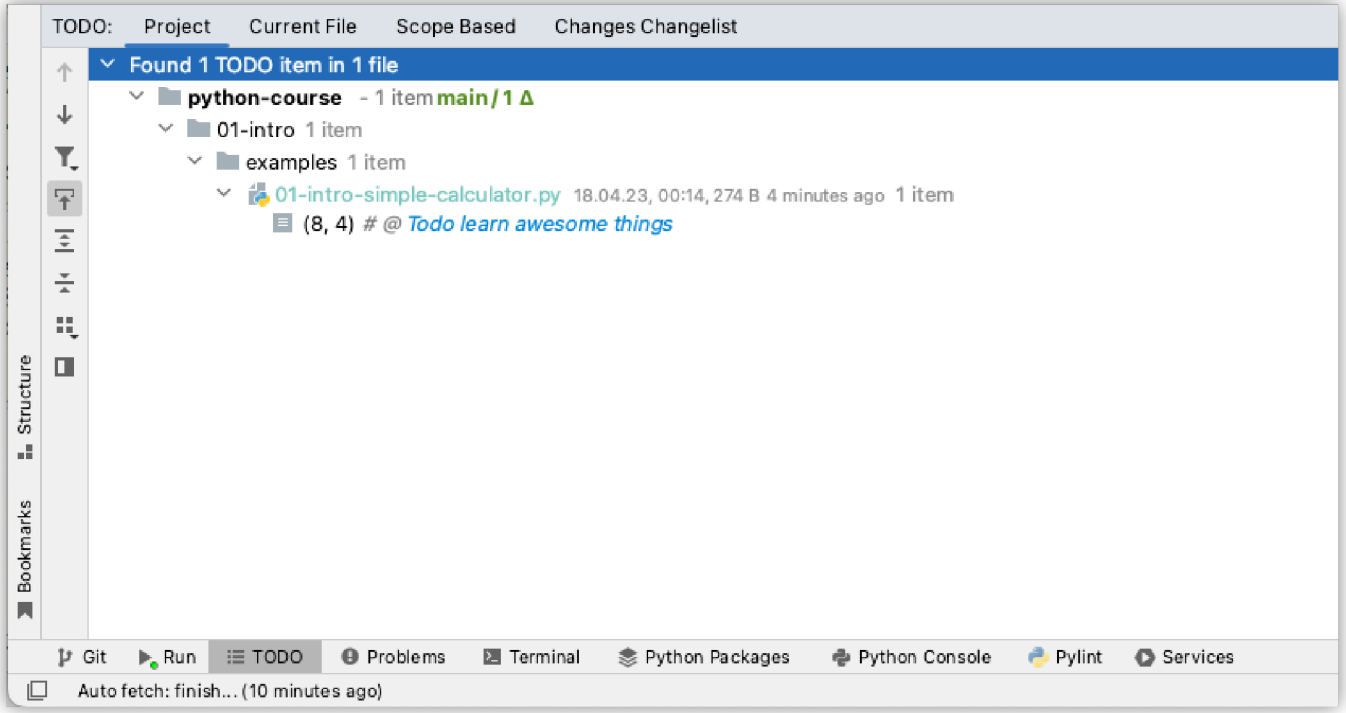
Python IDE

A python console:



Python IDE

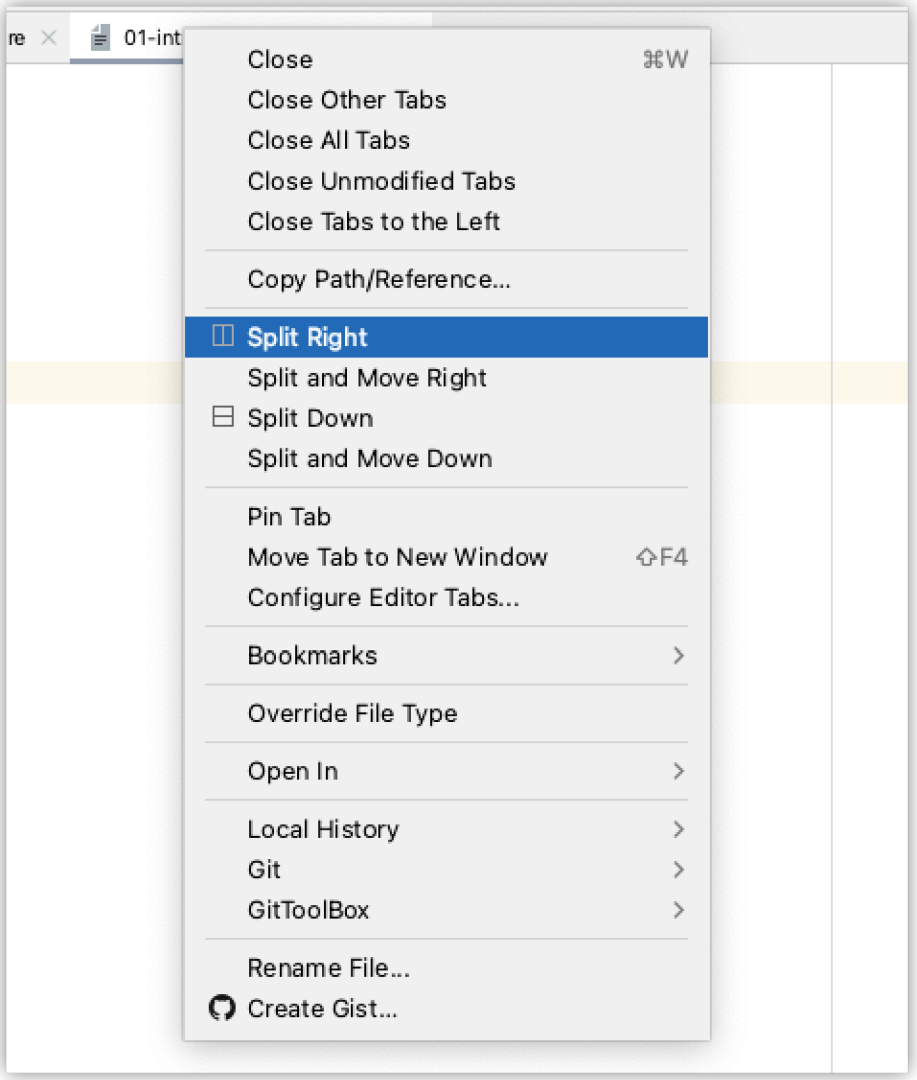
And many more features:



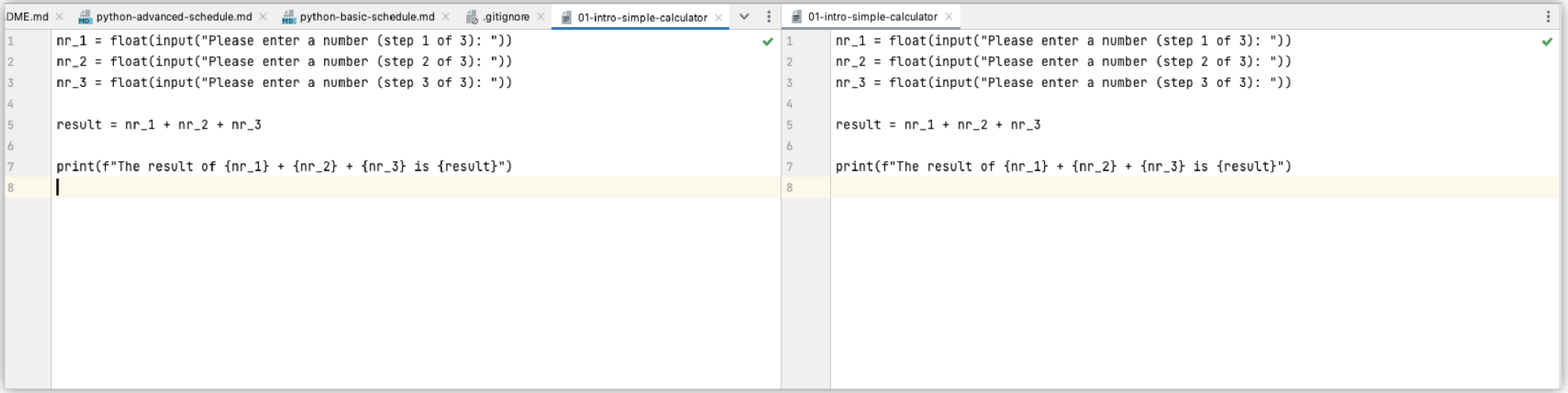
Python IDE

On the top, you will also see all opened files. This menu has also some awesome features.

One of them is to split the view:



Python IDE


DME.md
python-advanced-schedule.md
python-basic-schedule.md
.gitignore
01-intro-simple-calculator
01-intro-simple-calculator
nr_1 = float(input("Please enter a number (step 1 of 3): "))
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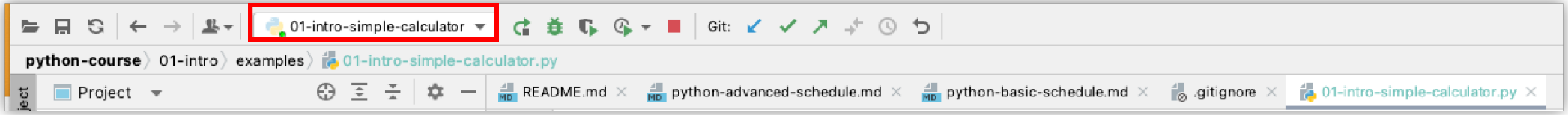
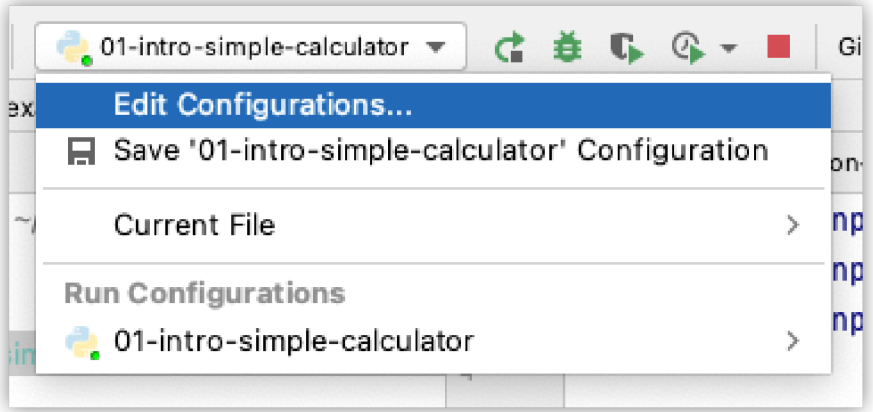
print(f"The result of {nr_1} + {nr_2} + {nr_3} is {result}")

Python IDE

As soon as you have run a script,
you will spot a "run configuration"
on top:



If it is grey - that means prepared but not saved.

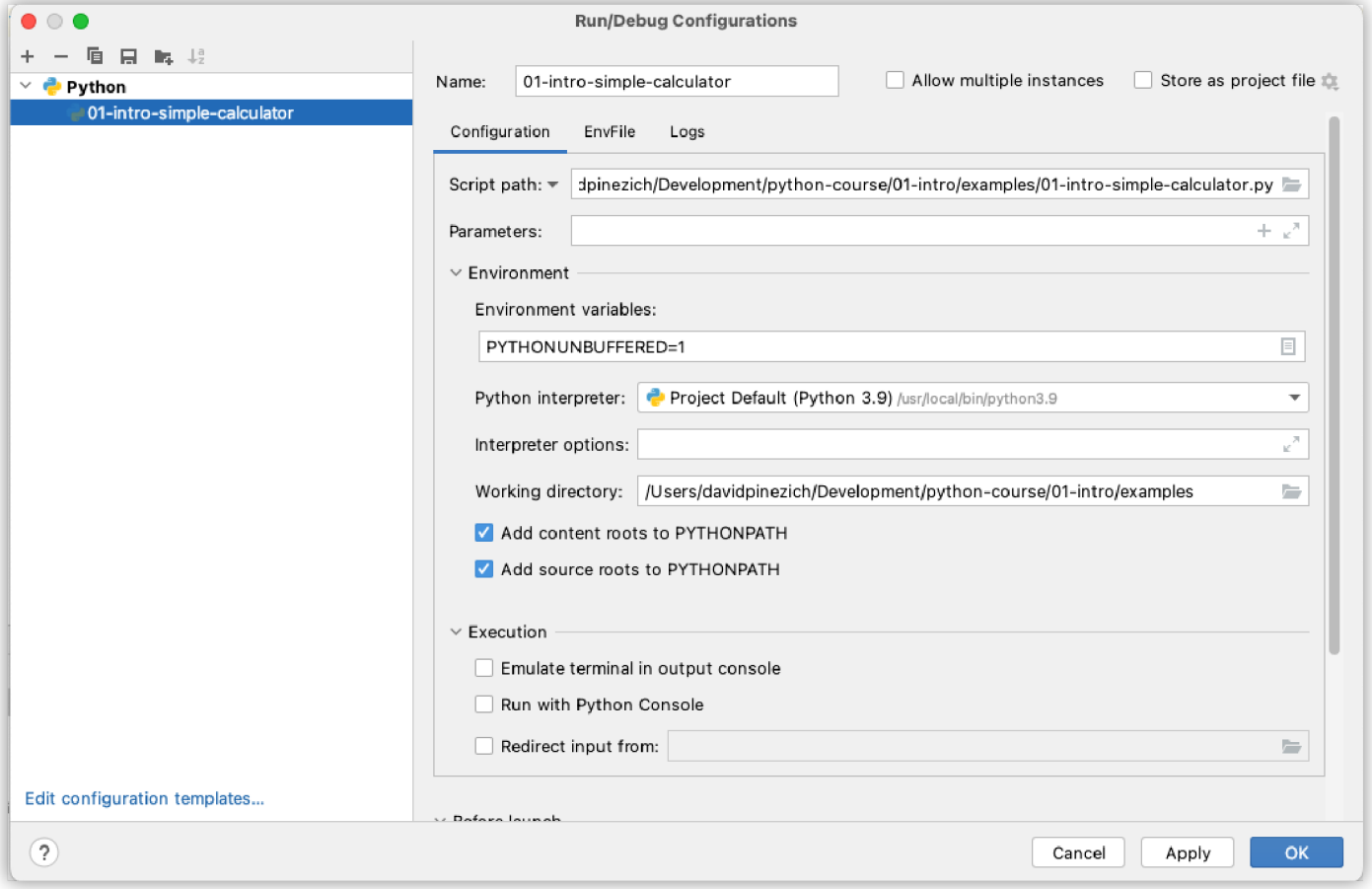


Python IDE

Every script can get such a runtime.

What that is all about,

will be covered later.



Python IDE

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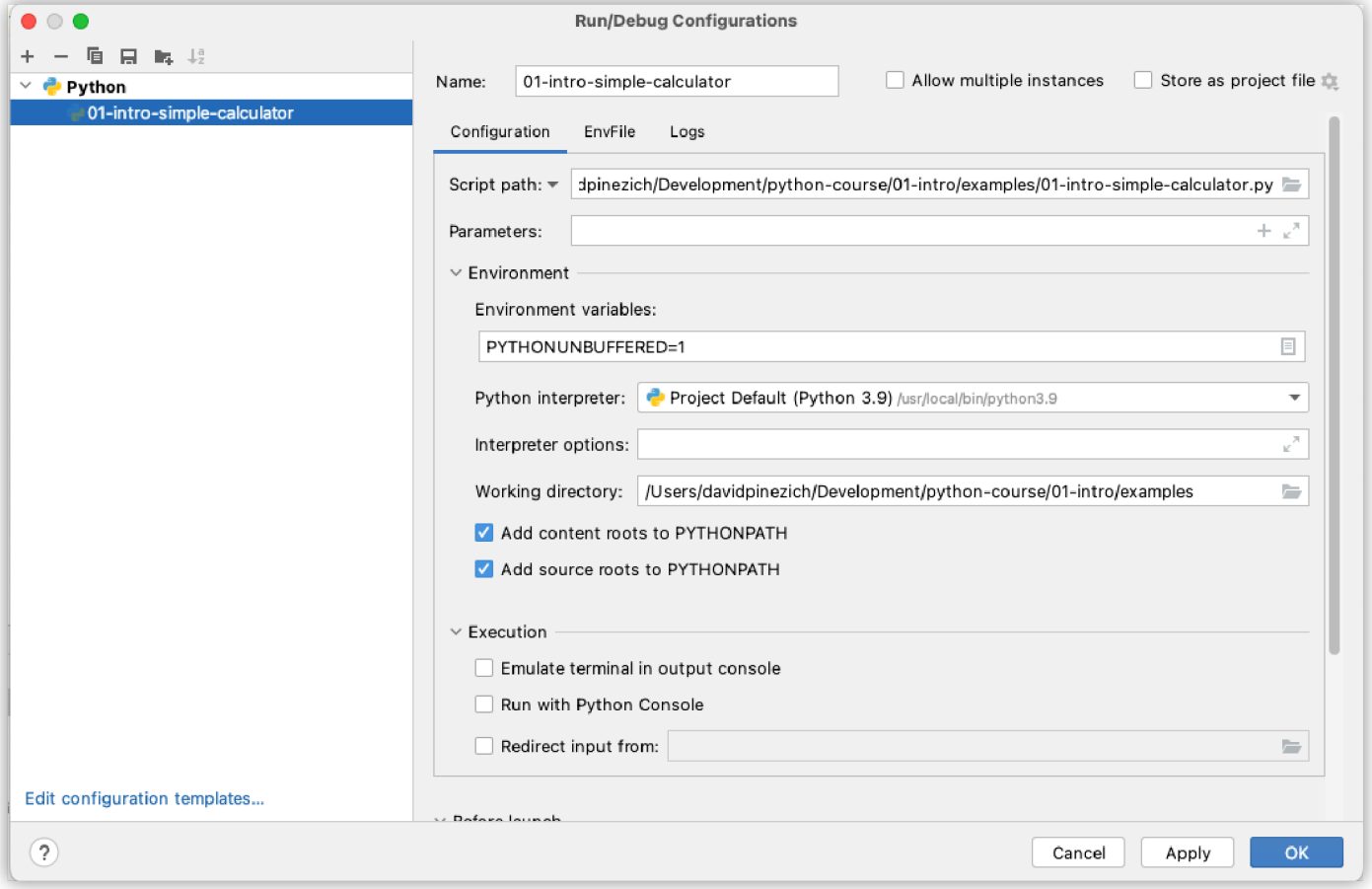
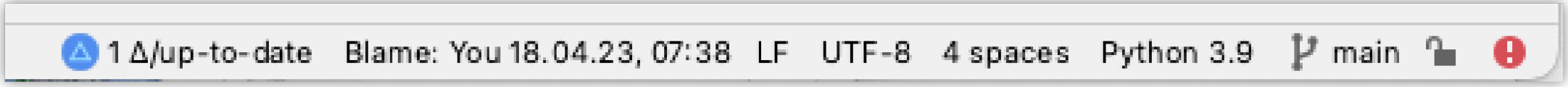


Python IDE

At the very bottom is the status bar.

Question: What information can you spot?



Exercise

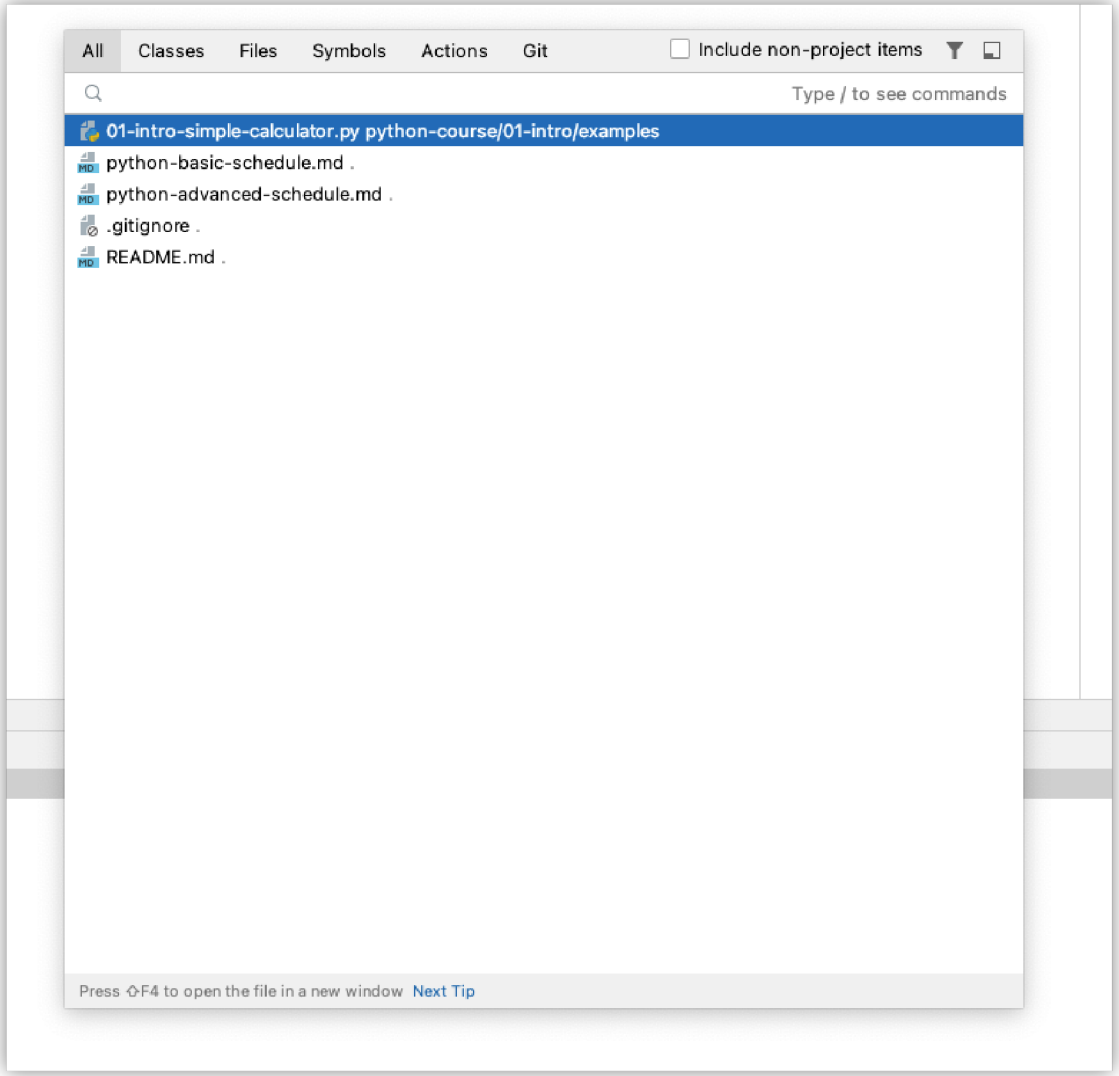
1. Please create a new Python file (in your userfolder) and name it first.py.
2. Copy the following code:
3. Run the code

```
1 a = 5
2 b = 10
3
4 print(b - a)
```

The universal helper

Please click "double-shift" (2-times-fast):

This little helper knows Pycharm very well and can event prevent you from using your mouse.

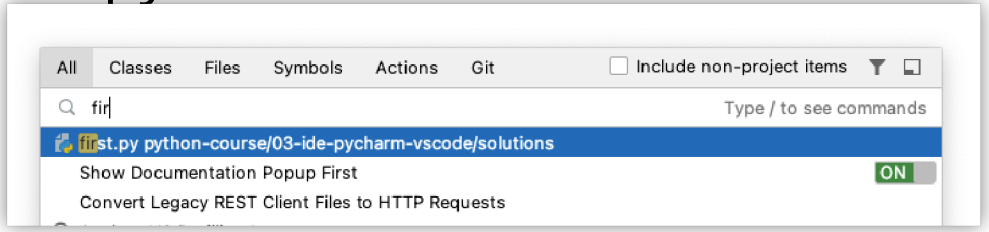


Exercise

1. Please create another new Python file (in your userfolder) and name it second.py.
2. Copy the following code:
3. Run the code

```
1 a, b = 2, 3
2 c = 20
3 d = 10
4
5 print(a + b + c + d)
```

Additionally: hit now double-shift and switch to "first.py"



End

That was all for this chapter