

Git scenarios and debugging infoShare Academy

infoShareAcademy.com

Plan na dziś

Prezentacja - Git/Github

Ćwiczenia - Git

🕏 5-10 min przerwa 💩

Debug - prezentacja

Ćwiczenia - challenge

🕏 5-10 min przerwa 🍮

Wprowadzenie do TDD

Ćwiczenia - challenge

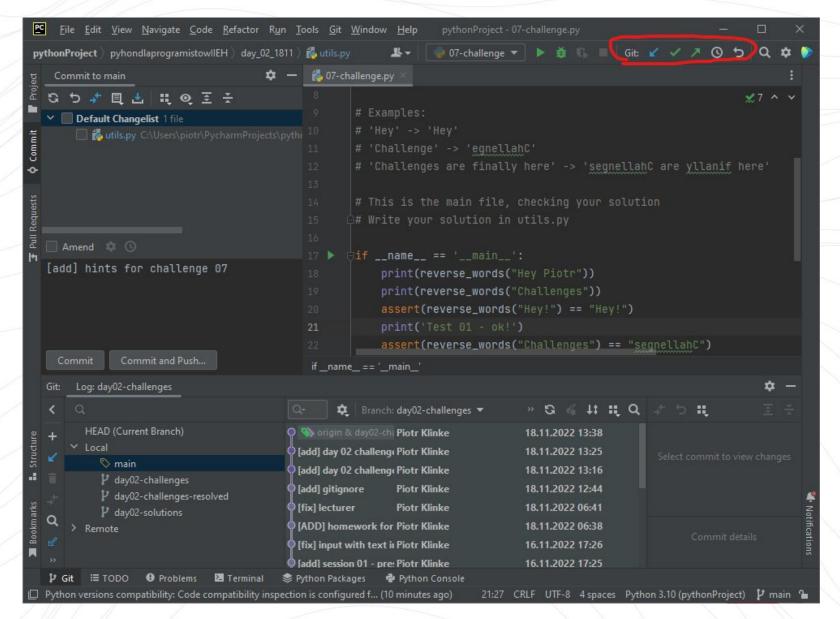








PyCharm Git GUI



Main Git actions:

Pull origin - updates local repo Commit Push **Show history**





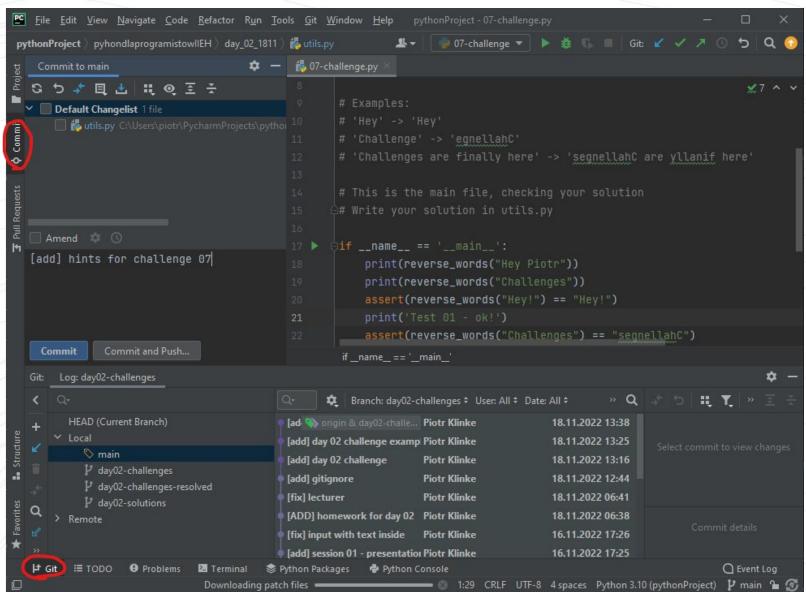
Main windows:

Commit

- checking local changes
- committing (saving) work
- searching for mistakes or unnecessary changes
- rollback of changes (your ctrl+z)

Git:

- changing branches
- adding branches
- reviewing past commits



info Share

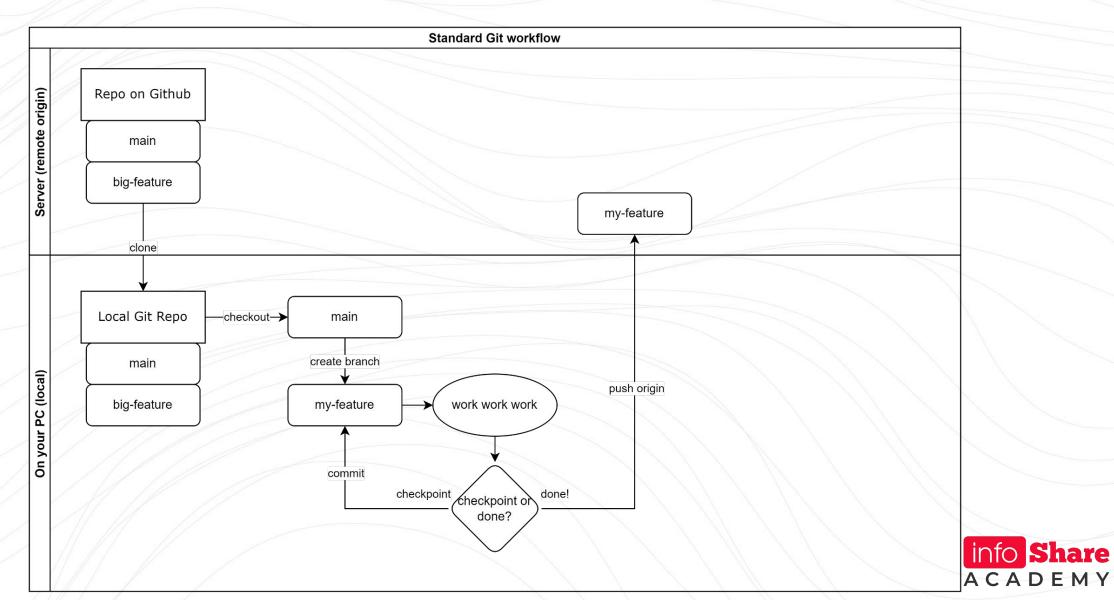
ACADEMY





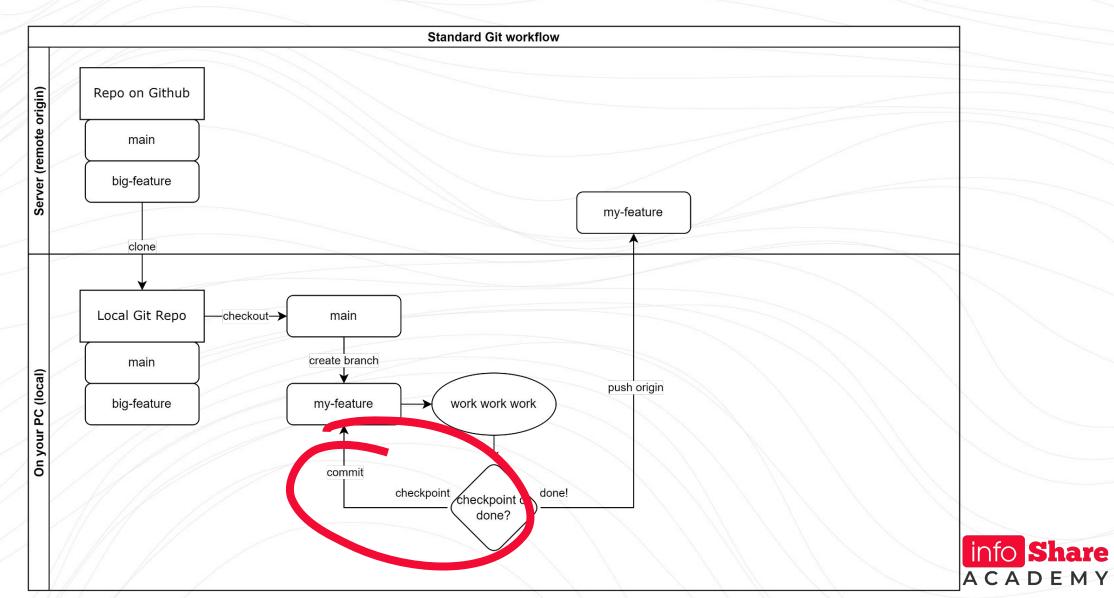


Basic diagram of work with Git



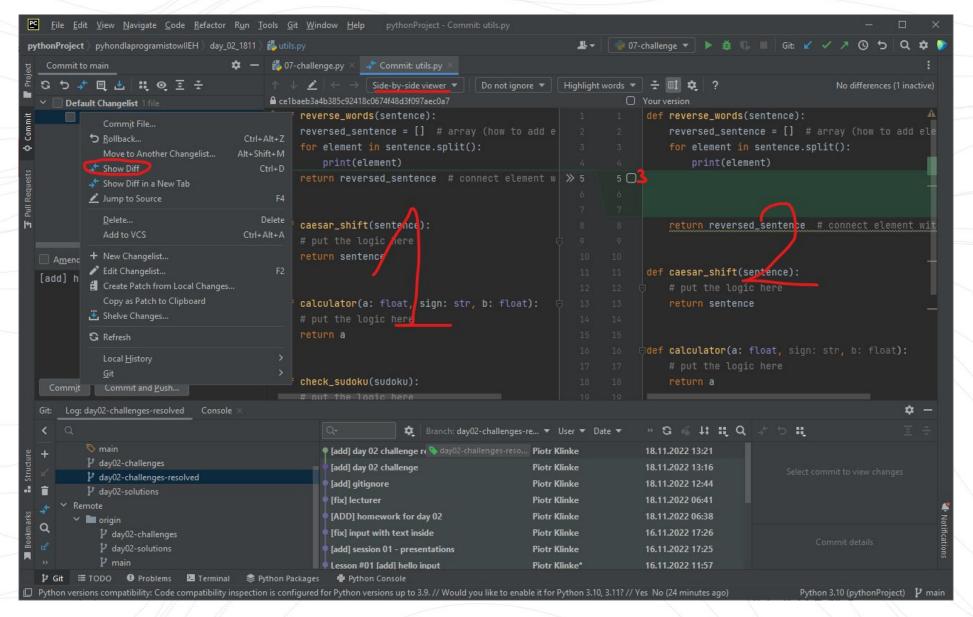


Reviewing your changes





Reviewing your changes



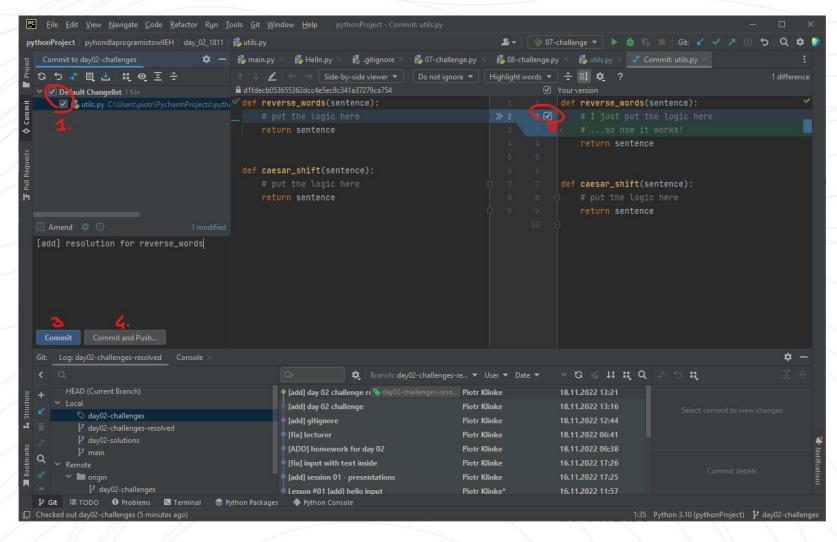
Click show diff or doubleclick your changed file:

- you are shown the difference between original file (1) and your changes (2)
- example change here notes lines added
- you can click the exact change to commit it, rollback or stash





• Reviewing your changes



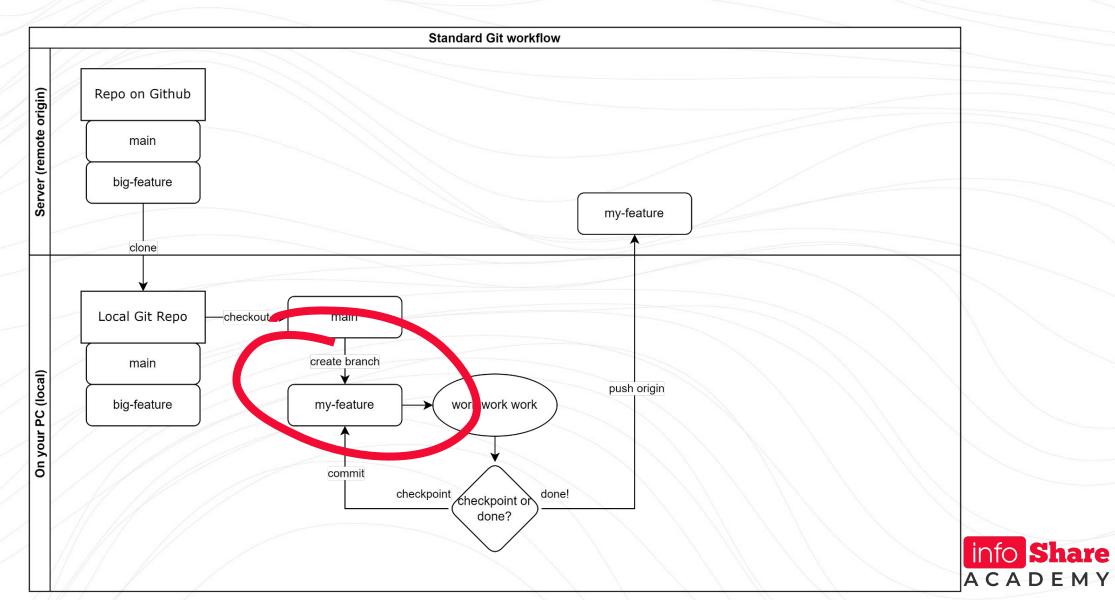
Check your changes:

- mark them as a whole file to commit (1) or just some of the lines (2)
- commit the changes locally (3)
- or send to github (4)



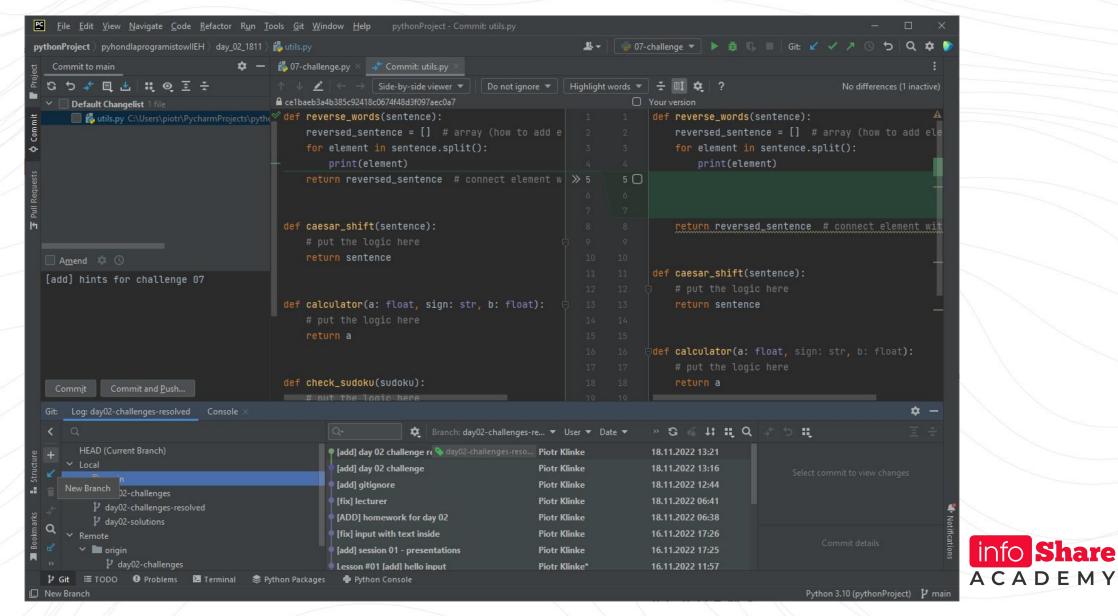


Managing your branch



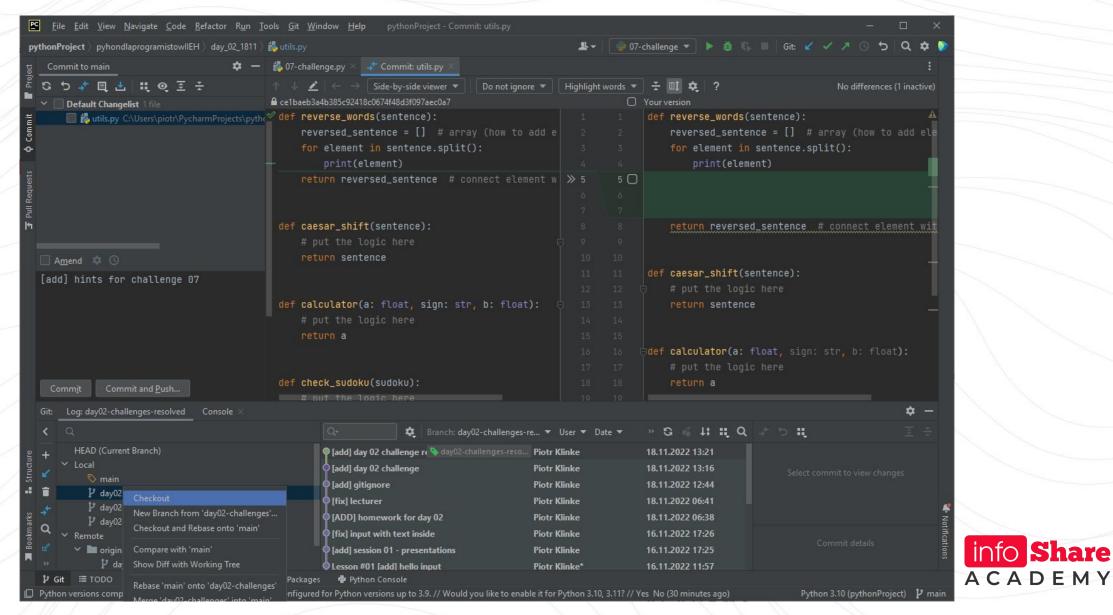


Managing your branch



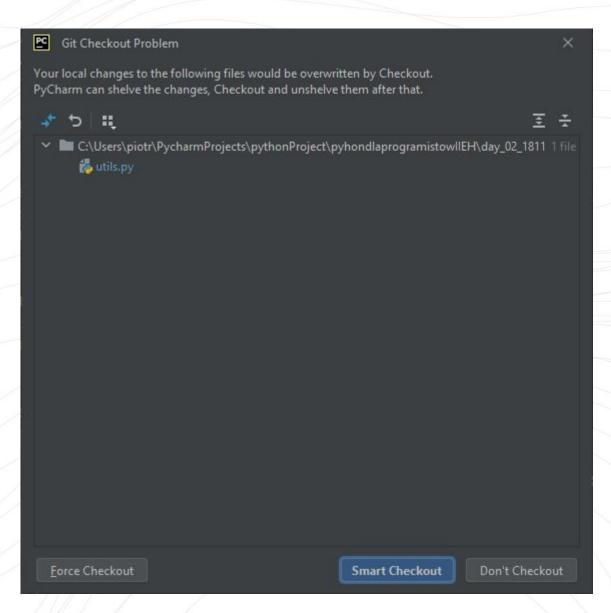


Managing your branch





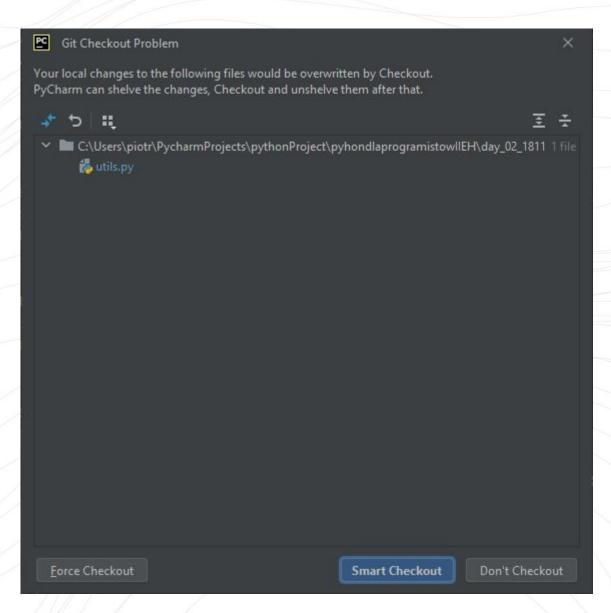
You still have working changes - save them somewhere or rollback





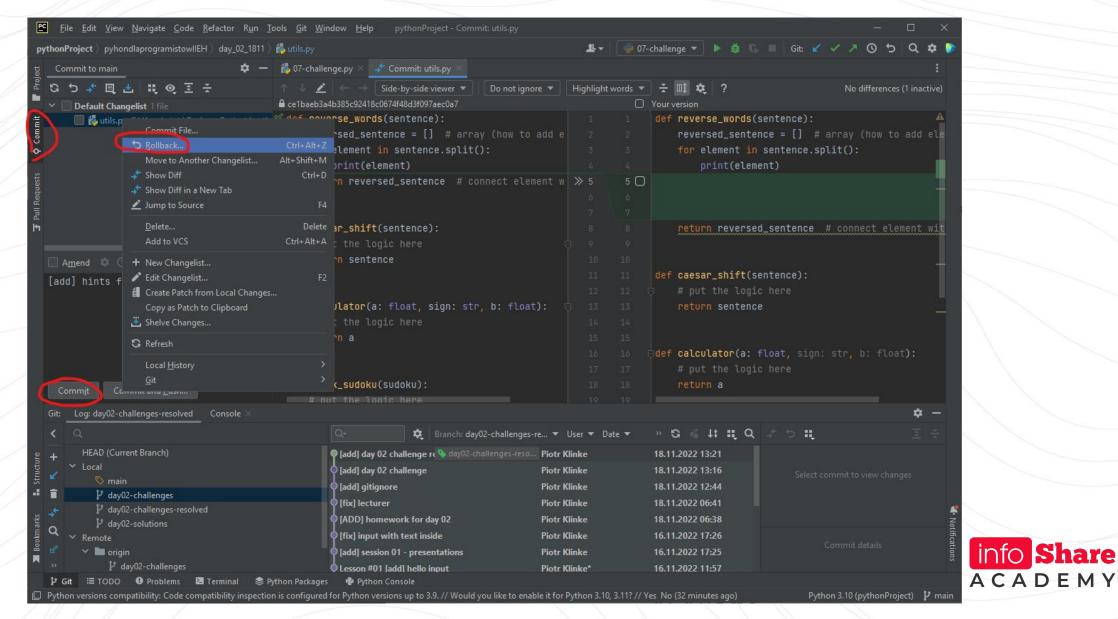


You still have working changes - save them somewhere or rollback



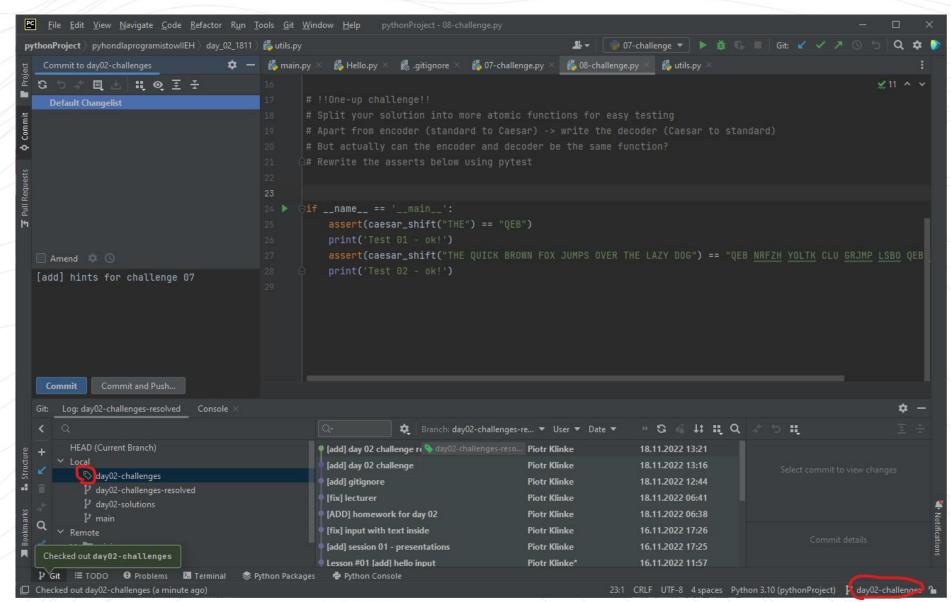


Commit panel





• We finally changed our branch

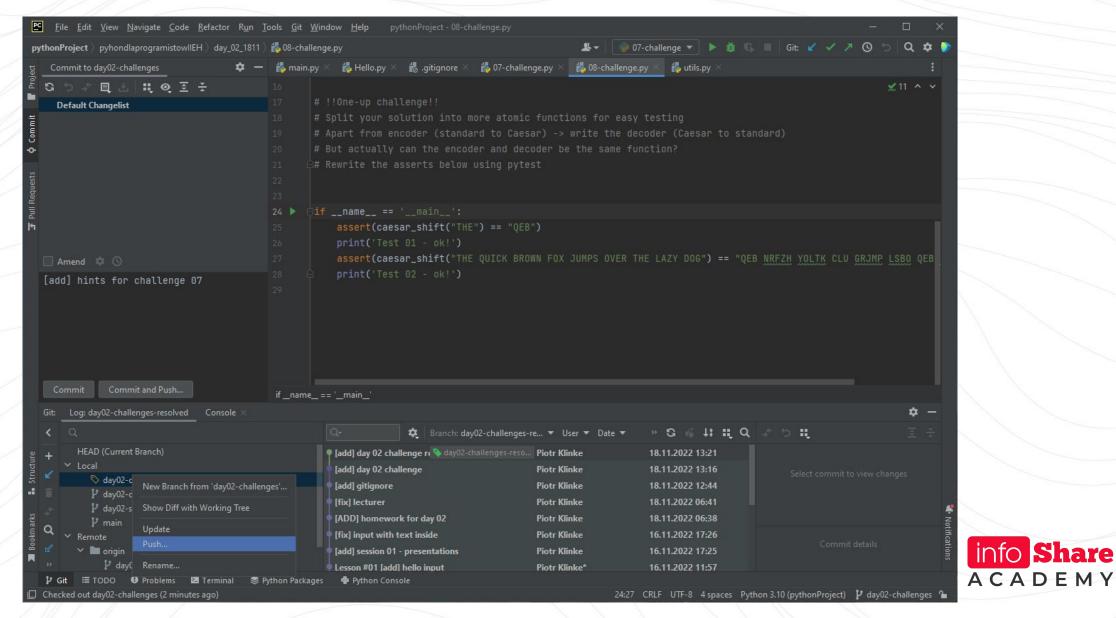


info Share

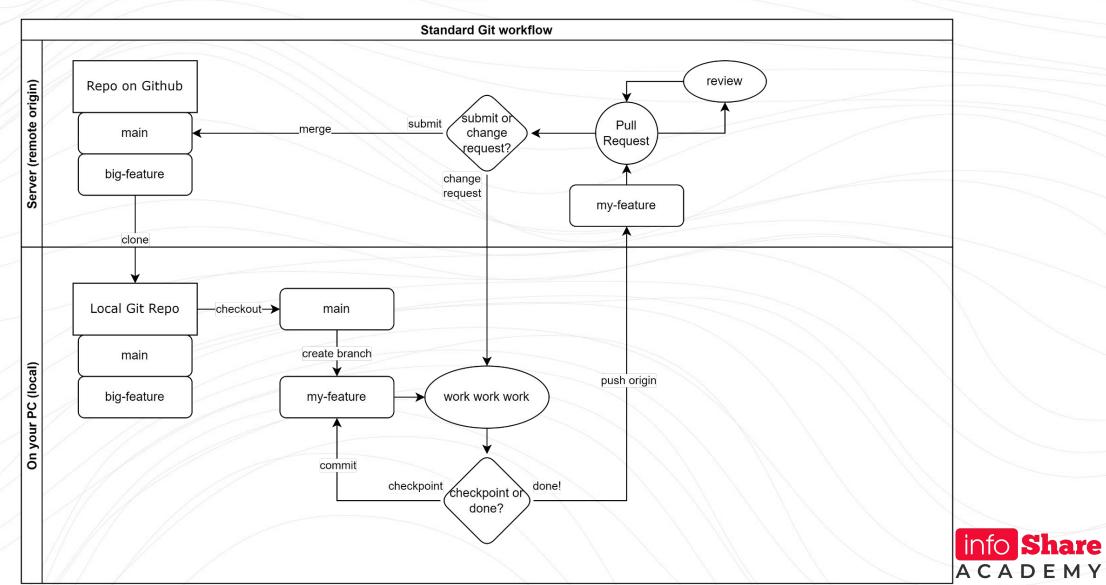
ACADEMY



You can push now to Github!



Finishing work

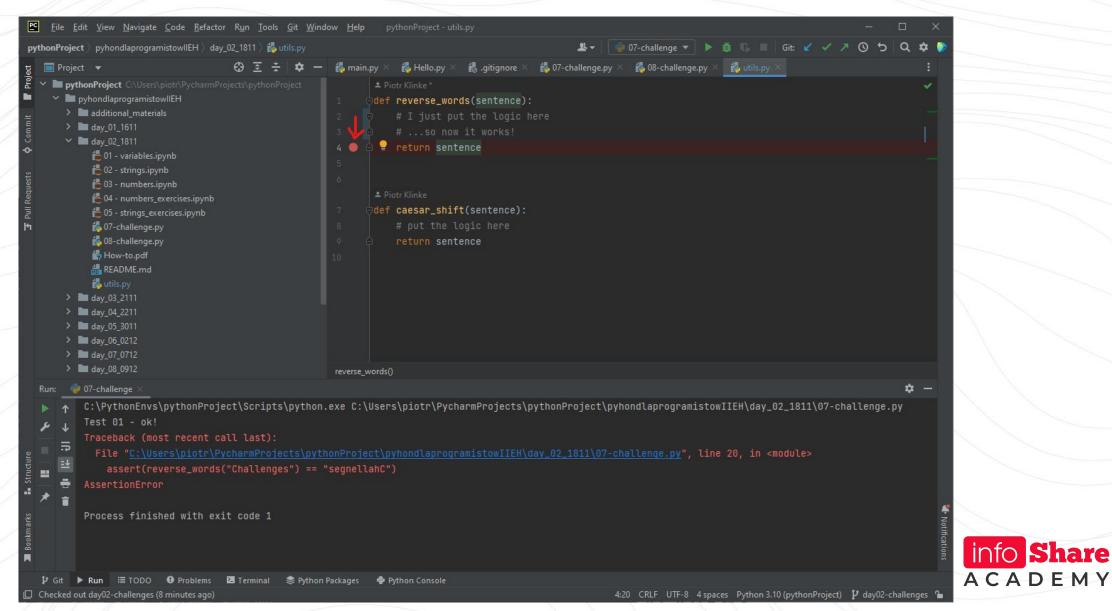




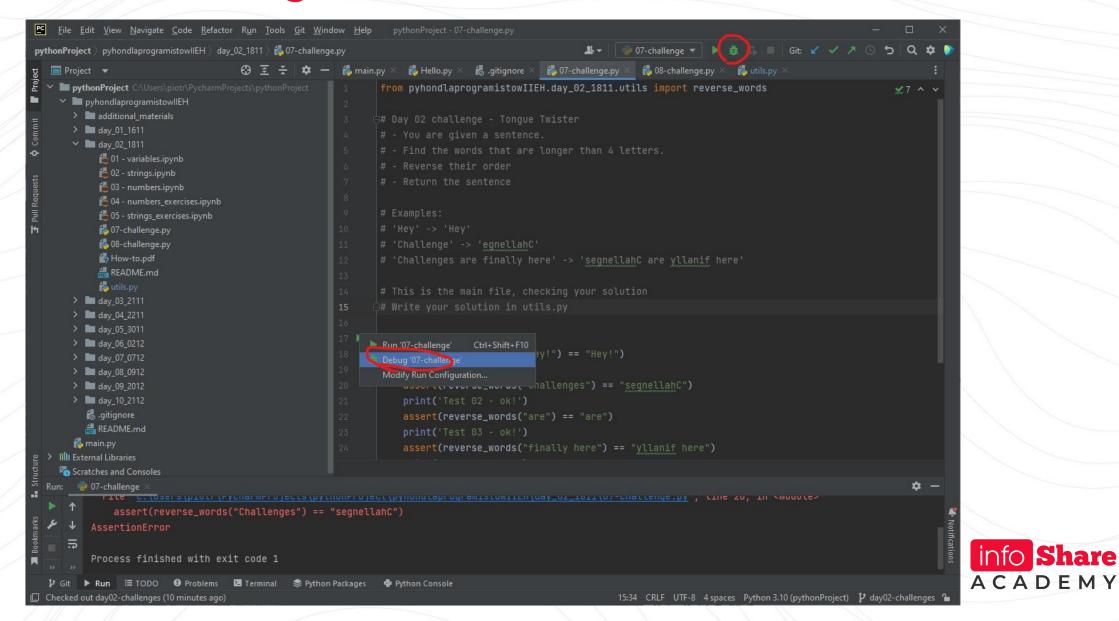




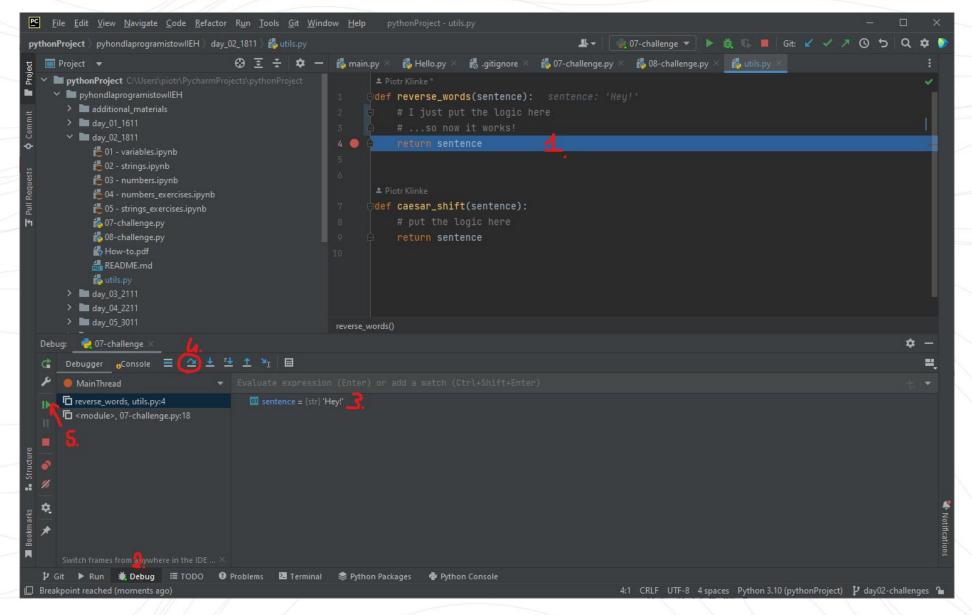
Set a breakpoint - click next to line



Launch debug



Let's dive deeper!

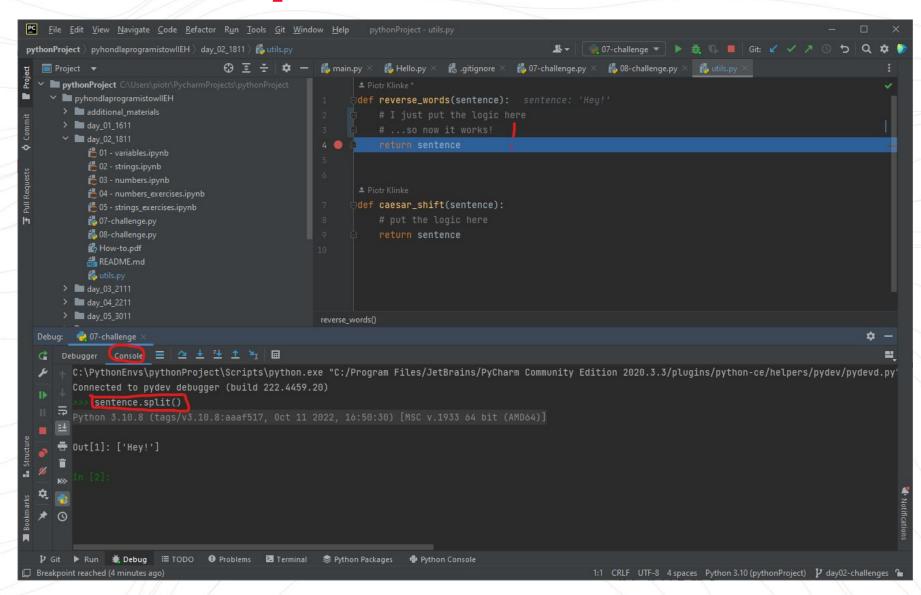


Let's debug:

- blue marked line (1) shows you where you stopped the interpreter
- a new panel (2) appears
- you see the active variables (3)
- you can step into the next line (4)
- you can continue running the code (5)



Even deeper...

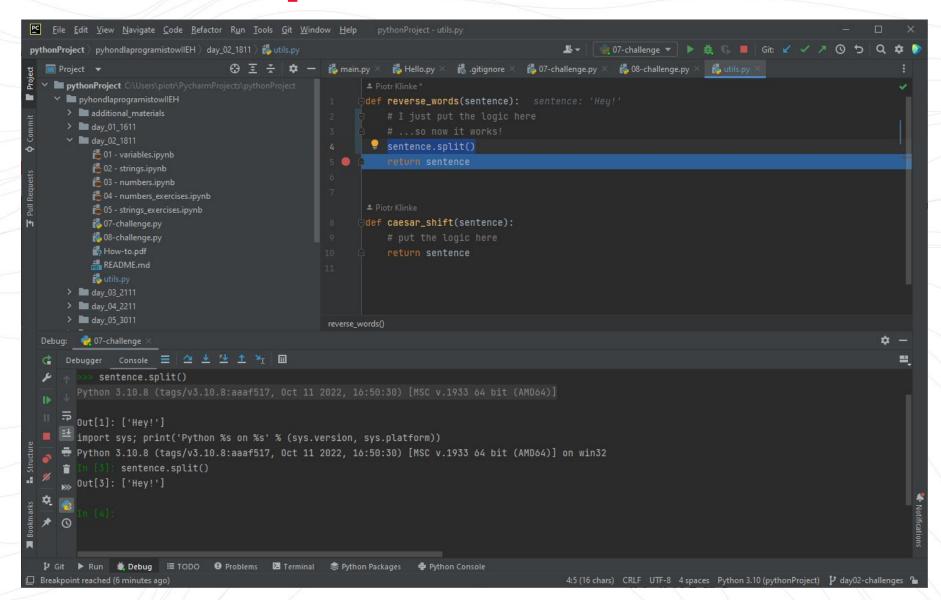


Let's debug:

- you can use the console to run your code...
- having all the variables available



Even deeper...



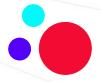
Let's debug:

- you can even paste sth you came up with into the code and run it with alt + shift + E









Test-Driven Development

Write a test checking what you want to get - before implementing it

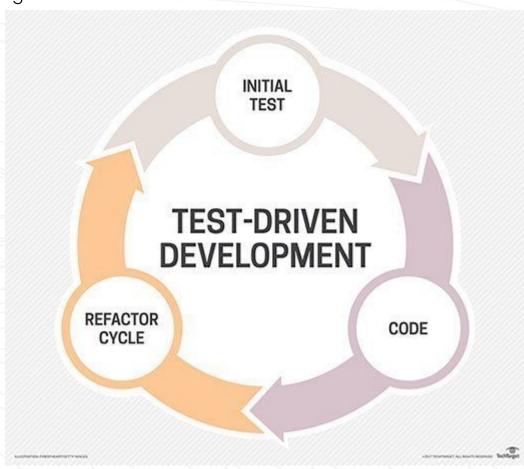
- describe functionality with tests
- use different examples

Implement your solution

- write atomic functions small, independent
- commit your changes as soon as sth works!!
- use git often

Summarize and take a step back and go back to writing more atomic tests

- use debug to check
- try to run the whole solution





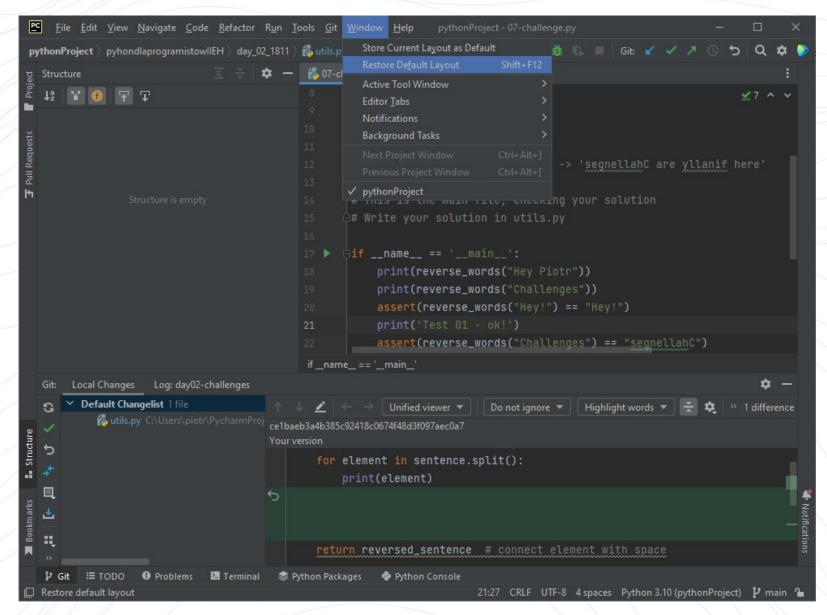


Dzięki!

infoShareAcademy.com



How to set up Git GUI in PyCharm (if some gui parts are different)

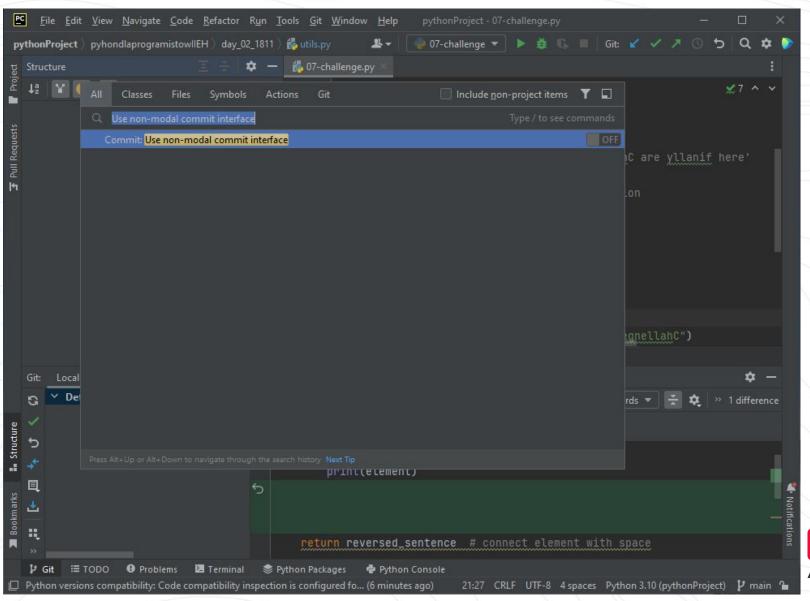






How to set up Git GUI in PyCharm (if some gui parts are different)

Double click shift and type: Use non-modal commit interface







How to set up Git GUI in PyCharm (if some gui parts are different)

You should have both windows as seen here:

