

Python Lab Week 2

By now, you should be familiar with

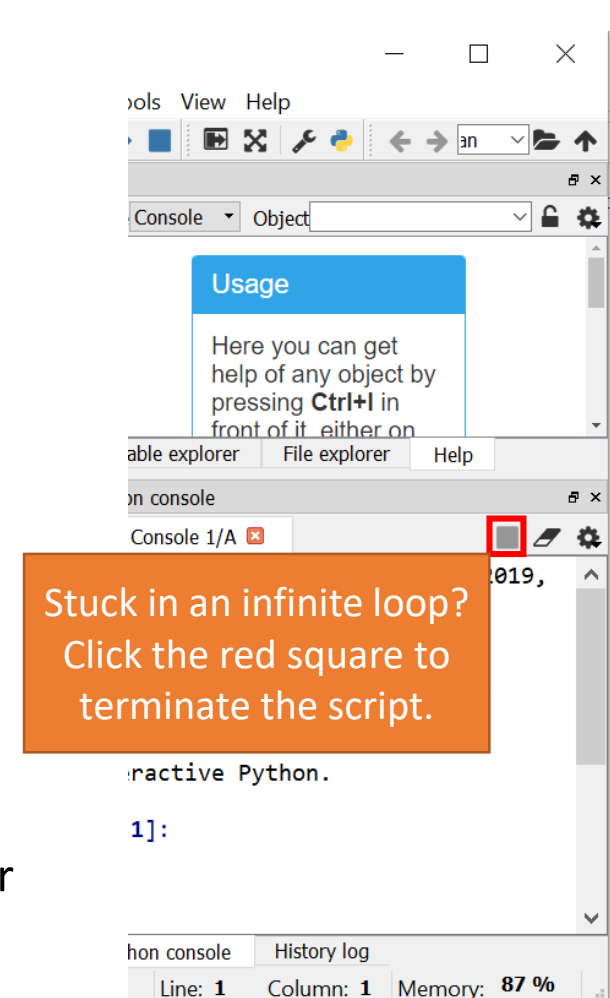
- the use of Spyder and your Python work environment (folder on Desktop, general workflow with the editor, IPython console, the variable explorer)
- the basic data types (`int`, `float`, `str`, `bool`) and how to convert between them
- the `print()` and `input()` functions [and that `input()` always returns a string]
- basic arithmetic operations like `x//y`, `x%y`, `x**y`
- for loops, while loops, if-else statements, and conditionals

You have (hopefully) attempted the week 2 home exercises, and can now proceed with the week 2 lab exercises. If not, start with problem 1 on both week 2 sheets, and then work your way through all week 2 exercises.

Any questions or stuck, please don't hesitate to ask the helpers 😊

Remember the “**Ten commandments**”: in particular, work inside to outside and don't start with the user inputs (they are not the “core” of the problems).

First, make your code work for a fixed number, say `n = 17`, and only when this works as expected, input the value of `n` from the user! Work line by line and run the code each time.



Breakout rooms

Home exercise Problem 1

Home exercise Problem 2

Home exercise Problem 3

Home exercise Problem 4

Home exercise Problem 5

Lab exercise Problem 1

Lab exercise Problem 2

Lab exercise Problem 3

Lab exercise Problem 4

Lab exercise Problem 5

Lab exercise Problem 6

Lab exercise Problem 7

Lab exercise Problem 8

Lab exercise Problem 9

Room 1

Room 2

Room 3

Room 4

Room 5

Room 6

Room 7

Join Breakout rooms

With latest Zoom version (5.3.2), maximise Zoom app and look for **[Breakout Session]** button at the bottom

The screenshot displays the Zoom meeting interface. At the top, the title bar reads "Zoom Meeting" with window control icons. Below it, a status bar shows "Aufnahme" (Recording) and "Ansicht" (View). The main area features a video feed of a man with glasses, identified as "Stefan Güttel". A central overlay window titled "Breakout Session - Im Gange" (Breakout Session - In Progress) is open, listing three breakout rooms, each with a "Beitreten" (Join) button. The bottom toolbar contains icons for "Audio ein", "Video starten", "Teilnehmer" (2), "Chat", "Bildschirm freigeben", "Aufnehmen", "Breakout Session" (highlighted with an orange box), "Reaktionen", and "Verlassen". A large green text overlay on the right side of the screen reads "Join the room you want" and "er Pan".

Zoom Meeting

Aufnahme

Ansicht

Breakout Session - Im Gange

- Room 1 Beitreten
- Room 2 Beitreten
- Room 3 Beitreten

Stefan Güttel

Join the room you want

er Pan

Audio ein Video starten Teilnehmer 2 Chat Bildschirm freigeben Aufnehmen Breakout Session Reaktionen Verlassen