

Session 2

Exercises from *Python for Everyone*, Chapter 2

R2.3, R2.4 Mathematical expressions in Python

R2.6 Practice with `/`, `//`, `%` operators, `int` and `round` functions.

R2.11 Practice identifying types and values.

P2.11 Gas mileage

P2.15. Print a grid

P2.21 Find the date of Easter.

P2.35 Giving change.

P2.36 Interest payments

Session 3

P2.26 Draw a bull's eye.

2.31 Draw a Bar chart

Session 4 and 6 (functions and accumulation)

R4.2 Various accumulator problems.

R4.4 Trace various *for* loops

R4.10 How many times does this loop execute?

R4.18 More practice tracing *for* loops

P4.1 write loops that accumulate.

P4.5 input 12 numbers and print mean, smallest, largest, range

P4.22 Print a diamond

P4.25 Monty Hall problem

P4.40 sine wave "bar chart"

R5.4 Trace calls to functions with return values

R5.8 variable scope and function tracing

P5.1 Smallest and average of three numbers

P5.10 readFloat function

P5.33 Focal length of a lens

Sessions 5-7 (decisions and accumulation)

R3.1 Trace some if statements

R3.2 Difference between two ifs and else

R3.3 Errors in if statements

R3.4 More traces

R3.9 Trace pseudocode

R3.10 Test case coverage

R3.22 In if/elif/else, does the order of the tests matter?

R3.28 Understand and, or, not

R3.30 Simplify Boolean statements

P3.15 Largest of 3 numbers

P3.21 Are numbers the same up to two decimal places

P3.25 Compute income taxes

P3.29 Number of days in a month (write it as a function, with the month number as its parameter)