We continue today our class example RationalNumber from the lectures. The complete code is included in the lecture notes. This assignment has 6 tasks.

Exercises

Task 1

Write documentation for this class (docstring).

Task 2

Change the method shorten so that it does not change the object but returns a new object.

Task 3

Provide two automatically generated attributes can_be_shortened (Boolean) and factor_for_shortening (int).

Task 4

Change the class in such a way, that a change of the numerator and denominator automatically changes the attributes of the previous task.

Task 5

Change the class so that attributes cannot be deleted.

Task 6

Check in the course manuscript how to provide special docstrings for attributes with the property function and define such docstrings.