Outline for September 27, 2022

Reading: §2, 4.4

Assignments: Homework 1, due October 5, 2022

1. Assignment [swap.py]
   (a) Simple assignment: `variable = expression`
   (b) Simultaneous assignment: `variableA, variableB = expressionA, expressionB`

2. Exception `NameError` — local or global name is not found

3. Example
   (a) Compute the hypotenuse of a right triangle [hypotnoex.py]

4. Exception `SyntaxError` — Python parser encountered a malformed statement

5. Exception `ZeroDivisionError` — attempt to divide (or take the remainder of) something by 0 [divby0.py, divby0ex1.py]

6. The difference between strings and integers [twoplustwo.py]
   (a) Difference between `'2 + 2'`, `2 + 2`

7. Exception `TypeError` — operation or function applied to operand of wrong type
   (a) Typing letters when a number is expected [divby0ex2]

8. Type converter functions `int`, `float`, `str`

9. String operators
   (a) Operator `+`: string concatenation
   (b) Operator `*`: repetition

10. Input [make_change_ex.py]
    (a) `input(prompt)` prints prompt, waits for user
    (b) When user hits enter, it returns what was typed as a string

11. Basic output [printend.py]
    (a) `print(a, b, ...)`
    (b) `end='XXX'`