Outline for September 30, 2024

Reading: §2, 4.4; "Table of Precedence and Associativity"   **Due:** Homework 1, due October 14, 2024

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.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'`