

## Outline for September 27, 2022

**Reading:** §2, 4.4

**Assignments:** Homework 1, due October 5, 2022

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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'`