Outline for September 27, 2021

**Reading:** §1  
**Assignments:** Homework 1, due October 6, 2021  
**Handout:** “Table of Precedence and Associativity”

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

2. Exception \texttt{NameError} — local or global name is not found

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

4. Exception \texttt{SyntaxError} — Python parser encountered a malformed statement

5. Exception \texttt{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 \texttt{’2 + 2’}, \texttt{2 + 2}

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

8. Type converter functions \texttt{int, float, str}

9. String operators  
   (a) Operator \texttt{+}: string concatenation  
   (b) Operator \texttt{*}: repetition

10. Input [make_change.py]  
    (a) \texttt{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) \texttt{print(a, b, \ldots)}  
    (b) end=’XXX’