Outline for October 6, 2021

Reading: §6.1–6.8

Assignments: Homework 1, due October 6, 2021

1. Sequences
   (a) Sequences are a series of values in a particular order
   (b) In Python predominantly strings and lists but also sets and tuples

2. Strings
   (a) Sequence of characters (characters are strings of length 1)
   (b) Strings are immutable; really important for functions

3. Basic string operations
   (a) +, concatenation for strings
   (b) *, repetition repeats given value
   (c) len() returns length of sequence
   (d) s in str returns True if s is a substring of str, False otherwise

4. Indexing, var[position]
   (a) Count from 0 to len(var) – 1
   (b) Position can be a negative number to count from right

5. Assignment with indexing doesn’t work as strings immutable
   x = ‘hEllo’; x[1] = ‘e’ produces an error

6. Slicing, var[start:end]
   (a) Value at index end not included in slice
   (b) If omitted, starting value defaults to 0 and ending value defaults to last index + 1
   (c) Can use negative index

7. Looping over strings: for i in str

8. Example program [strstuff.py]