Assignments: Homework 2, due October 30, 2020

## Outline for October 29, 2020

- 1. I have to change my office hours tomorrow. I am moving them to 3:30pm-4:30pm.
- Lists

Reading: §8

- (a) Sequence of values (ints, floats, strings, other lists, etc.)
- (b) Denoted by square brackets [ ] with values separated by commas
- (c) Lists are mutable
- (d) How to create a list
- 3. Lists and strings [datecvt.py]
- 4. Program to print words in a line [lines.py]
- 5. What you can do with lists
  - (a) Check membership: in, not in
  - (b) +: concatenation
  - (c) \*: repetition
  - (d) list[a:b]: slice list from a to b-1
  - (e) del list[i]: delete element list[i]; i can be a slice
- 6. List methods
  - (a) Add elements to, remove elements: L.append(x), L.extend(ls), L.insert(i, x), L.pop(), L.remove(x)
  - (b) Element ordering: L.reverse(), L.sort()
  - (c) Other: L.count(x), L.index(x)
- 7. Objects, references, aliasing
  - (a) For strings, one copy: assume a = "banana"
    - i. After b = a or b = a[:], then a is b is True
  - (b) For lists, multiple copies: assume A = [1, 2, 3]
    - i. After B = A then A is B is True
    - ii. After B = A[:], then A is B is False