Outline for November 14, 2012

Reading: §14 Assignment due: Wednesday, November 28, 2012 at 5:00 PM

- 1. Lists
 - 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
- 2. Type conversion
 - a. str(val) attempts to convert val to a string
 - b. list(sequence) attempts to convert sequence to a list
- 3. Program to print words in a line [*lines.py*]
- 4. Program to compute some statistics [addup.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[item]: delete list[item]; item can be a slice
- 6. 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
- 7. Lists as parameters: can change list elements in function and they are changed in caller [args2.py]