Outline for February 6, 2012

Reading: §8

1. Sequences
   a. Accustomed to use in for loops (for i in range(5):)
   b. Sequences are a series of values in a particular order
   c. 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

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

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. String module import string
   a. String methods: s.capitalize(), s.replace(old, new), s.find(sub), s.rfind(sub), s.upper(), s.lower()