Outline for October 25, 2022

Reading: §7 Assignments: Homework 3, due November 10, 2022

- 1. Files
 - (a) What is a file?
 - (b) What can you do with it? (For example, read, write, append)
 - (c) Types of files (text, binary)
- 2. File Input and Output for text files
 - (a) Opening and closing: open(filename, mode), close()
 - (b) Reading: readline(), readlines(), read(), read(n)
 - (c) Writing: write(str), writelines(list)
- 3. Exception EOFError input function encounters an end of file
- 4. Examples
 - (a) Print out a named file [fileio1.py]
 - (b) Print out a named file and prepend line numbers [fileio2.py]
 - (c) Store the output in *filename*.lst [*fileio3.py*]
- 5. Examples
 - (a) Put lines in a file in random order [randlines.py]
 - (b) Read in a list of words from a file, then search it as requested; similar to linear search program [search-1.py]
 - (c) Now see how many words you checked total [search-1c.py]