

Lecture 11: November 5, 2019

Reading: §7

Assignments: Homework 3, due on November 8 at 11:59pm

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. 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`]
4. 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`]