**Class 18**

**Key Ideas**

* There are methods that read from files
* There are methods that write to files (which means from the beginning)
* There are methods that append to files (which means writing from the end of a file, or adding to an existing file)
* Reading, writing, and appending are called modes
* Files must be opened, then processed, then closed

**Built-ins**

**Functions**

**open:** opens a file so that it can be processed

**Statements**

**with**: creates a block of code for working with a file, and automatically closes the file at the end

**Methods**

* **close** closes a file
* **write(s)** to write a string *s* to the file
* **writelines(ls)** to write a list *ls* to the file
* **read** to read in the entire file as one string
* **readlines** to read all of the lines from the file (into a list of strings)
* **readline** to read one line from the file as a string

**Assessment Questions**

(T/**F**) The **readline** method returns -1 if the end of file has been reached

(**T**/F) The **with** statement will automatically close a file