Outline for February 5, 2018

Reading: §6

1. Example program [strarray.py]
2. String module: import string
   a. String constants: string.ascii_letters, string.digits, string.punctuation, string.whitespace
3. String methods
   a. Rule: methods that change, add, or delete characters do not alter the string to which they are applied; they return a new string that is a copy of the old string, suitably modified
4. String methods: type of characters in string (return True or False) [strtype.py]
   a. S.isalpha() — True if only alphabetics (letters) in S
   b. S.isalnum() — True if only alphanumerics (letters or digits) in S
   c. S.isdigit() — True if only digits in S
   d. S.isspace() — True if only white space (blanks, tabs, newlines) in S
   e. S.isupper() — True if all letters in S are upper case
   f. S.islower() — True if all letters in S are lower case
5. String methods: changing case of letters in string (return result of applying method) [strchcase.py]
   a. S.capitalize() — If the first character of S is a letter, capitalize it
   b. S.title() — Capitalize each word in S
   c. S.lower() — Change all upper case letters in S to lower case
   d. S.upper() — Change all lower case letters in S to upper case
   e. S.swapcase() — Change all upper case letters in S to lower case and vice versa
6. String methods: stripping blanks from strings (return result of applying method) [strstrip.py]
   a. S.lstrip() — Delete all leading white spaces from S
   b. S.rstrip() — Delete all trailing white spaces from S
   c. S.strip() — Delete all leading and trailing white spaces from S
7. String methods: find characters and substrings (return position or cause exception) [strfind.py]
   a. S.find(s) — Return the index of the first occurrence of s in S; -1 if s not in S
   b. S.index(s) — Return the index of the first occurrence of s in S; ValueError exception if s not in S
   c. S.rfind(s) — Return the index of the last occurrence of s in S; -1 if s not in S
   d. S.rindex(s) — Return the index of the last occurrence of s in S; ValueError exception if s not in S
8. String methods: miscellaneous [strmisc.py]
   a. S.count(s) — Return the number of times s occurs in S
   b. S.startswith(s) — True if S starts with s
   c. S.endswith(s) — True if S ends with s
   d. S.replace(s, t) — Replace all occurrences of s with t in S
9. 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
10. Program to print words in a line [lines.py]