Outline for October 11, 2021

Reading: §6.9–6.10, 4.9

Assignments: Homework 2, due October 20, 2021

1. Example of sets [sets.py]
2. String methods: 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
3. String methods: type of characters in string (return True or False) [strtype.py]
   (a) S.isalpha() — True if only alphabets (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
4. 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
5. 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
6. 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
7. 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
8. Lists and strings [datecvt.py]
9. Program to print words in a line [lines.py]