Lecture 7: October 17, 2019

Reading: §6 Assignments: Homework 2, due on October 24 at 11:59pm

- 1. Greetings and felicitations!
- 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 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
- 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