Outline for November 7, 2023

Reading: §14, 12, 13

Assignments: Homework 3, due November 9, 2023

1. Useful abbreviations in patterns
   (a) \d matches any digit; same as [0-9]
   (b) \s matches any space character; same as [ \t\n\r\f\v]
   (c) \w matches any alphanumeric character and underscore; same as [a-zA-Z0-9_]
   (d) \D matches any character except a digit; inverse of \d
   (e) \S matches any character except a space character; inverse of \s
   (f) \W matches any character except an alphanumeric character or underscore; inverse of \w
   (g) \b matches a word boundary — a word is a sequence of alphanumeric characters

2. “Raw” string notation: backslash not handled specially; put “r” before string

3. Example of floating imprecision [roundoff.py]

4. Character/integer conversions [chr.py, ord.py]
   (a) Caesar cipher (shift cipher) [caesarenc.py, caesardec.py]

5. Reading a URL [geturl.py, geturl2.py, geturl3.py]
   (a) Opening a URL
   (b) Reading the page as a string
   (c) The role of decode() [geturl-nd.py]

6. A program to print links in web pages [urlpat.py, urlpat2.py]