

Outline for November 5, 2020

Reading: §4, 9

Assignments: Homework 3, due November 13, 2020

1. Refactoring code (*continued*)
 - (a) Collapse similar statements: make the distance between 2 points a function [*peri1.py*]
 - (b) Collapse similar statements: make the prompts a function [*peri2.py*]
 - (c) Refactor for clarity only: make the perimeter computation a function [*peri3.py*]
 - (d) Add error checking: “peri0.py” done right [*peri-c.py*]
2. Dictionary
 - (a) Collection of key-value pairs
3. Creating dictionaries
 - (a) Using `d = {}`
 - (b) Using `d = dict()`
4. Methods for dictionaries
 - (a) `k in D`: True if dictionary D has key k; else False
 - (b) `D.keys()`: list of keys in D
 - (c) `D.values()`: list of values in D
 - (d) `D.items()`: list of tuples (key, value) in D
 - (e) `D.get(k, d)`: if key k in D, return associated value; else return d
 - (f) `del D[k]`: delete tuple with key k from D
 - (g) `D.clear()`: delete all entries in D
5. Sorting the dictionary
 - (a) `sorted` sorts based on keys
6. Example: word frequency count
 - (a) Unsorted [*wfc-1.py*]