Outline for October 11, 2022

Reading: §4, 6

Assignments: Homework 2, due October 20, 2022

- 1. Functions [hello.py]
 - (a) What functions are
 - (b) Defining them
 - (c) Using them
- 2. Quick look at using them [quad.py]
 - (a) Passing values to functions
 - (b) Returning values from functions
- 3. In more detail: how Python does function calls [quad.py]
 - (a) Caller suspends execution at point of call, remembers where it left off
 - (b) Formal parameters assigned values from actual parameters
 - (c) Execute function body
 - (d) Return control to where caller left off
- 4. Refactoring code
 - (a) Compute the perimeter of a triangle [*peri0.py*]
 - (b) Collapse similar statements: make the distance between 2 points a function [peril.py]
 - (c) Collapse similar statements: make the prompts a function [peri2.py]
 - (d) Refactor for clarity only: make the perimeter computation a function [peri3.py]
 - (e) Add error checking: "peri0.py" done right [*peri-c.py*]
- 5. Add error checking: "quad.py" done right [quad-c.py]
- 6. 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