

## Outline for October 20, 2020

**Reading:** §4

**Assignments:** Homework 2, due October 30, 2020

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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: passing values to functions [*args.py*]
  - (a) Formal parameters in subject definition
  - (b) Actual parameters (arguments)
  - (c) Matching arguments to formal parameters
  - (d) Local variables
4. 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