Outline for January 10, 2018

Reading: §2, 3

- 1. Input
 - a. input, raw_input
 - b. try ... except
- 2. Simultaneous assignment [swap.py]
 - a. Simple assignment: variable = expression
 - b. Simultaneous assignment: variableA, variableB = expressionA, expressionB
- 3. Decision structures [if0.py]
 - a. If statement
 - b. Executes once, based on condition
 - c. Syntax
- 4. Conditions
 - a. Resolves to boolean value
 - b. Literal booleans: True (1), False (0)
 - c. Testable as true or false
 - d. Relational operators
 - i. Use two arithmetic expressions connected with relational operators to create a boolean
 - ii. Relational operators: >, >=, <, <=, ==, !=
 - iii. Precedence: resolved after arithmetic operators
 - iv. 6 > 2 + 3; "UCD" == "Sac State"
- 5. Two-way decisions [if1.py]
 - a. if ... else statements
 - b. One condition, two possible code blocks
 - c. Syntax
 - d. else very powerful when the positive condition is easy to describe but not the negative
 - e. String comparison example
- 6. Multi-way decisions [if2.py]
 - a. Can execute code based on several conditions
 - b. elif (else if)
 - c. Syntax
 - d. else only reached if all previous conditions false
 - e. Nested if statements