Week 5

Readings
Chapter 10
Chapter 14
Look over chapter 10 - "The defined-or Operator" but keep in mind that unless you are using Perl 5.10 you will not be able to use this and will have to use the ternary operator or an if statement instead (page 165-166).

Key notes to keep in mind (AKA: how Perl differs)
- Take note of chapter 10 - "Expression Modifiers" as they are often seen in others' code.
    - Only one statement is allowed to the right of the conditional when written this way.
    - Similarly only one conditional is allowed to the left of the statement (page 152).
    - Also be aware that the conditional is evaluated first just as if they had been written out in a traditional form (page 152).
- Naked blocks allow variables to be scoped more precisely depending on the duration you require them (page 153 – "The Naked Block Control Structure").
- You can also use the **last**, **next**, and **redo** operators to within a naked block just as within any other block.
- **redo** will end the current block and execute it from the beginning without evaluating the conditional or advancing to the next iteration (page 161 – "The redo Operator").
- Perl's short-circuit logical operators provide an easy way to initialize variables with a given value or fall back to a default (page 165 – "The Value of a Short-Circuit Operator").
- The **substr** and **index** functions do not incur the overhead of the regular expression engine (page 211).
- By default **sort** will sort by "ASCIIbetical" order
    - To sort numerically you must specify your own subroutine (but note that **$a** and **$b** are provided by Perl) (page 214-215).
    - The body of the subroutine can also be placed inline with your expression (page 216).

Typos in the Reading
- Page 219
    - **$family_name{$a} cmp $family_name{$a}** should be **$family_name{$a} cmp $family_name{$b}**
    - That last hash reference on that line should be **$family_name{$b}**
- Page 219 (next line of sample code)
    - **$personal_name{$a} cmp $family_name{$b}** should be **$personal_name{$a} cmp $personal_name{$b}**
    - That last hash reference on that line should be **$personal_name{$b}**

<u>Exercises</u>

Book exercises from Chapter 10 (numbers 2 and 3 should be done with the ternary operator) and Chapter 14.

Write a subroutine for **sort** that will sort the hash from last week by value in ascending order (if tied then sort by key alphabetically) and print it out similarly. The **sort** subroutine may also be placed inline.