10/12/18

Nested and Chained Conditionals

Objectives:

- Students will understand how nested and chained conditional logic controls program flow.
- Students will be able to solve problems that require nested and chained conditional logic.
- Students will work collaboratively to create a small program.
- Students will use their journals to record answers and check for understanding and reflection.

Journal

- Write the psuedocode that would determine if an input year is a leap year:

A year is a **leap year** if it is divisible by 4 unless it is a century that is not divisible by 400. Write a function that takes a year as a parameter and returns True if the year is a leap year, False otherwise.

A year is a **leap year** if it is divisible by 4 unless it is a century that is not divisible by 400. Write a function that takes a year as a parameter and returns True if the year is a leap year, False otherwise.

= int (input

% → returns a remainder

2000 Yes

1940 - Yes

1900 - NO

2005 - NO

Requirements:

- 2 functions: checkForLeap(year) and main
  - checkForLeap returns a Boolean: True or False
- must input the year from the user
- must print "It is a leap year" or "It is not a leap year"

main

main

Collaborative Coding

Runestone Sections (continued from lesson 06)

Simple Python Data
Variables, Expressions and Statements
Values and Data Types
Type conversion functions
Variables
Variable Names and Keywords
Statements and Expressions
Operators and Operands
Input
Order of Operations
Reassignment
Updating Variables