Homework 1

Python basics and flow control

Out 1/19 – Due 2/2

In this assignment you will develop a security program. Inside a while loop you ask several questions. Be creative! When all of them are answered correctly by the user, a piece of secret information will be printed and the program finishes (but don't print your SSN or anything sensitive). See Canvas for grading rubric. In your program:

- use **at least once** each of the following functions: print(), input(), len(), str(), int(), and randint().
- use at least one variable of each of the following data types: int, float and string.
- use *camelcase* or *underscores* for variable names. Be consistent and use descriptive names.
- use at least four different math operators. One of them has to be the modulus (%) or the integer division (//).
- use a for loop inside your main loop to ask three questions using the range() function. Use the value of your iterator to ask the three questions.
- use at least once each of the following statements: if, else, elif, break and continue.
- use at least one "Truthy" or "Falsey" value.
- write some comments to explain what you did in your code and why.

Submit your code as *hwl_firstname_lastname.py* (please only turn in the py file). Comment everything so we know it's your code. On top of your file include this multi-line comment:

""
Homework 1
Name:
Date:
Description of your program:

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¹ For example, use randint to generate two numbers num1 and num2, then ask the user what is the result of num1+num2; or ask what is the number of days in February in a leap year; or how many characters are in the word pneumonoultramicroscopicsilicovolcanoconiosis; and so on.