CPS 600, Fall 2018

Assignment 1:

Due: Friday, September 15, EOD

What

You will upload to blackboard a single `.py` file with your solutions to the problems below. You are encouraged to fill out the `template.py` file available in the BB item containing this assignment description, leaving the filename *unchanged*.

1. Store a person's first name in a variable. Then, using the `.format` string method, print a message to that person using that person's name.
2. Store your full name in a variable, then print your full name in lowercase, uppercase and titlecase.
3. Store two numbers in variables. Using string formatting, print a message that reveals your two choices of number.
4. Store the names of a few of your friends in a *list* object. Then, using a `for` loop, print each of the names in that list one at a time.
5. Store the names of at least three people in a list. Using that list, print a message to each of those people. For example, the message could be "Hello, [insert name here], please come to my house for dinner this evening."
6. Modify the list used in the previous exercise by adding or replacing names. Repeat the printing step.
7. Use `insert` and `append` to add guests to the beginning, middle and end of your list, then repeat the printing step as above.
8. Use `.pop` to remove guests from your list one at a time until only two names remain in your list. Each time you pop a name from your list, print a message to that person letting them know you are sorry you cannot invite them to dinner. Use a `while` loop to do this.
9. Use `del` to remove the last two people from your list, then print your list to confirm that it has become the empty list.
10. Write a function named `pv_f` having 3 parameters: `fv,r,n` where

    - `fv` is future value
    - `r` is discount periodic rate
    - `n` is number of periods

    and the function returns the value `fv/(1+r)**n`.
    Then call the function with `fv=100,r=0.1,n=1`.