Lab #2

Due Date: 01/25/2019, 11:59PM

Read the instructions carefully before starting the assignment. Make sure your code follows the stated guidelines to ensure full credit for your work.

Instructions:
- The work in this lab must be completed alone and must be your own.
- **Download the starter code file from the LAB2 Assignment on Canvas. Do not change the function names or given started code on your script.**
- A doctest is provided as an example of code functionality. Getting the same result as the doctest does not guarantee full credit. You are responsible for debugging and testing your code with enough data, you can share ideas and testing code during your recitation class.
- Each function must return the output (Do not use print in your final submission, otherwise your submissions will receive a -1 point deduction)
- Do not include test code outside any function in the upload. Printing unwanted or ill-formatted data to output will cause the test cases to fail. Remove all your testing code before uploading your file (You can also remove the doctest). Do not include the input() function in your submission.

Goal:

[5pts] Write the function *joinedList*(*n*), where *n* is an integer number. This functions **returns** (not prints) the list [1,2,...,*n*,*n*,...2,1] for every *n*>0 and the list [*n*,*n*+1,*n*+2, -1, -1, -2,…,*n*] for every *n*<0. If an invalid input is provided, the function must **return** a string with an error message (the string 'error' is enough)

[5pts] Write the function *removePunctuation*(*txt*), where *txt* is a string. This function **returns** a string that replaces every character that is not an alphabet letter into a space. If a string is not provided as an input, the function must **return** a string with an error message (the string 'error' is enough). **Hint:** string method isalpha()

Deliverables:
- Submit your code with the file name LAB2.py to the Lab2 GradeScope assignment before the due date

Notes:
- Verify your code is returning and not printing the output, otherwise, your code will return None and the test cases will fail
- To provide input to your functions, include –i as an argument in the command line to run an interactive Python session (`python -i LAB2.py`)
- A doctest is provided in the starter code. To run it, type `python -m doctest -v LAB2.py`
- Mac users type python3