

**CS 150**  
**ASSIGNMENT 1: PYTHON REVIEW**

Create a new Python script file that you will name *yourname\_homework1.py*. Save this file in a folder on your computer where you will keep all your homework assignments. Write some Python code inside this file that I will be able to run on my computer without errors.

When finished, upload your file in Google Classroom using the Homework 1 assignment link. Don't forget to add comments at the beginning of each task and throughout your code for clarity.

TASKS

1. If you did not finish installing Python and Anaconda/Spyder IDE, please do so now.
2. Write a program that displays the number of times string *s* contains the word 'cha'. For example, if *s*='liketodancechacha' will return 2
3. Assume *s* is a string of lower case characters.  
Write a program that prints the longest substring of *s* in which the letters occur in alphabetical order. For example, if *s* = 'azbcedestaghmz', then your program should print  
Longest substring in alphabetical order is: bcde  
In the case of ties, print the first substring. For example, if *s* = 'abcbed', then your program should print  
Longest substring in alphabetical order is: abc
4. Write a program that counts up the number of vowels contained in the string *s*.
5. Write a function `isIn` that accepts two strings as arguments and returns `True` if either string occurs anywhere in the other, and `False` otherwise. (Hint: use the *in* string operator)
6. Write a program that asks the user to input 10 integers and then prints the largest odd number that was entered. If no odd number was entered, it should print a message saying so.