CAIS 117: Intro to Programming with Python

Fall 2023

Homework 04: Copy Cat

Homework is DUE before class on the day indicated on the course schedule.

==This is a pair assignment==. You should complete it and submit it with a partner.

Learning Objectives:

- Use string methods to manipulate strings
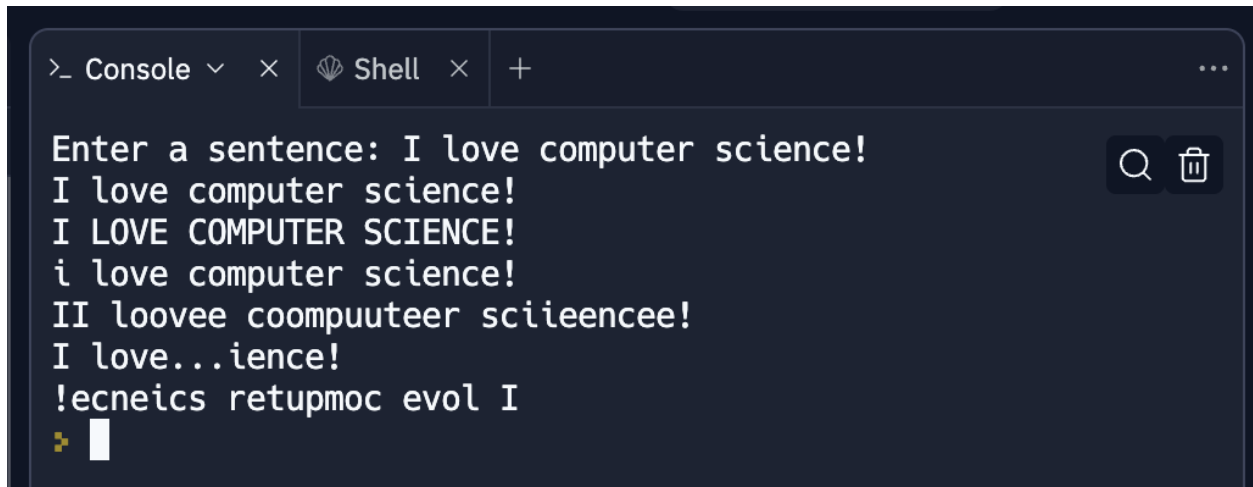
Part 1 - coding

Your submission will be auto graded for correctness and graded by hand for appropriate commenting, structure, etc. (see rubric below). **For the auto grader, it's important that your input goes in the prescribed order, and your output is formatted exactly like the examples below.** Remember to check the results of the autograder tests to help debug your program.

In this assignment, you will write a python program that manipulates a user-entered string. **Your program must define a main function.**

The program should do the following:

- Ask the user for a sentence
- Output
  - The sentence exactly as the user entered it
  - The sentence in all uppercase
  - The sentence in all lowercase
  - The sentence with every vowel doubled
  - The first 5 and last 5 characters of the sentence, separated by …
  - The sentence with the characters reversed

For example:

```
>_ Console ∨   ×    Shell   ×    +                    ...

Enter a sentence: I love computer science!     Q 🗑
I love computer science!
I LOVE COMPUTER SCIENCE!
i love computer science!
II loovee coompuuteer sciieencee!
I love...ience!
!ecneics retupmoc evol I
>
```

Reflection

In a word document please answer the following questions with your partner:

a) What part of this assignment was trickiest for you and your partner?
b) How did you tackle that tricky part?
c) What did each partner contribute to the final product?

Submission

Submit your assignment on repl.it (as a group). In addition, save your reflection as a PDF and submit it on PLATO (as a group).

Rubric

Function		
	Passes auto grader tests	0 - 10
Commenting		
	Appropriate header with names, date, program description	0 - 2
	Code is well documented, but not over documented	0 - 2
Structure		
	Problem is broken into reasonable chunks	0 - 2
	Variable names are descriptive	0 - 2
	Functions are used appropriately	0 - 2
Reflection		
	All questions answered thoughtfully	0 - 5