Keith Yrisarri Stateson

COMSC 140 Python

Program Documentation

Midterm Q2: Longest and Shortest Words

1/ Link

<https://github.com/DVC-COMSC/midterm-1-question-2-enduringwriter/blob/main/main.py>

2/ Program Purpose  
This program takes multiple string inputs from the user and returns the longest and shortest words in the string. If there are multiple, the first instance is returned. The program ends with the user enters, 'stop' or 'STOP'.

3/ Input/Output Description

Input: The program takes multiple string inputs from the user. The program stops when the user inputs 'stop' or 'STOP'.  
Output: The program outputs the longest and shortest words using len() function.

4/ Explanation of All Variables  
word: string variable to store each input from the user.

longest: string variable to store the longest word.

shortest: string variable to store the shortest word.

5/ Flow Chart  
Start > declare variables for longest and shortest > prompt the user for string input in a loop > if the input is 'stop'/'STOP', stop input > compare word length with longest, update if applicable > compare with shortest, update if applicable > once loop has ended, output the longest and shortest words > end.

6/ Lesson Learned  
I learned to use strings, loop operations, conditions, and logic to find the longest and shorter words. Also, learned that you can’t apply float(‘inf’) to a string.

7/ Errors

Used float(‘inf’) for shortest variable. Instead, I used = "a" \* 10000 to make it a long string.