IDSN 542: Machine Intelligence

Goal

In this lab, you will analyze user input by iterating over a name the user enters and counting the vowels (AEIOU).

Setup

- Create a Python file called **lab2.py**.
- Your **lab2.py** file must begin with comments in the following format (replace the name and email with your actual information):

```
'''
Your name
IDSN 542, Fall 2025
Your USC email
Lab 2
'''
```

Requirements

Your program must perform the following:

- Ask the user for a name. If they enter nothing (meaning their input has a length of 0), quit the program.
- Once the user has entered their name, analyze their input one letter at a time.
- If the letter (either uppercase or lowercase) is a vowel (AEIOU and X [for fun]) increment a counter.
- Display the number of vowels you've counted and be sure to set that counter back to 0!
- Loop your program until the user enters an empty string.

Some Useful Hints

You can find the length of a string using the 'len' function like this:

```
myString = "Hello"
strLength = len(myString)
```

Sample output

Below is your target output for a full run-through of the program. User input is in **red**.

```
What's your name (enter to quit)? Holy moley
That name has 3 vowels!
What's your name (enter to quit)? I play the xylophone
That name has 7 vowels!
What's your name (enter to quit)?
```

Deliverables

1. A compressed folder containing **lab2.py**, named **lab2.zip**. Submit to Brightspace.