

Homework #2

Due Thursday by 6:30pm **Points** 48 **Submitting** a file upload **Available** Jan 26 at 9:30pm - Feb 2 at 6:30pm 7 days

Write a program that asks the user for a letter. The program should then determine if the letter is a vowel or not.

In this homework you will, of course, be writing functions to perform the individual components of the program.

For this assignment, you should have the following functions:

1. First function: `AskForLetter()`: This function will repeatedly ask the user for a single letter until the user types 'quit' to exit the program or they have entered a vowel. This function will use the built-in python function called `len`. `len` is used to determine the length of an input. For example, if the input from the user is 'i', `len('i')` will return 1. Try this in python interpreter. If the `len` of the user input is 1, then this function should call the second function below. Finally this function outputs the input letter if it is a vowel.
2. Second function: `IsVowel(letter)`: This function will take as input a variable called `letter` and will determine if this letter is a vowel or not. If it is a vowel it will return `True` and if it is not it will return `False`. To determine if `letter` is vowel or not, this function will call a third and a fourth function below.
3. Third function: `IsLowercaseVowel(letter)`: this function will take a single variable as input called `letter` and will return `True` if the letter is an lowercase vowel.
4. Fourth function: `IsUppercaseVowel(letter)`: this function will take a single variable as input called `letter` and will return `True` if the letter is an uppercase vowel.

Make sure you account for user input error. Test your code by trying to cause errors in input.

Print out a copy of your homework and bring it to class. Make sure to include the output.

