# Lab 4.01 - de\_vowel

## Remove the Vowels

Create a function, de\_vowel, which will take a string as input and return a copy of that string with all the vowels removed. Otherwise, the string should be the same. ‘Y’ does not count as a vowel for the purposes of this function.

1. Create the function contract for de\_vowel.
2. Write de\_vowel using a for loop
3. Provide a few examples that confirm de\_vowel works as expected:
   * What if the string is all vowels?
   * What if there are no vowels?
   * What if there is a mix of vowels and non-vowels and spaces?
   * What if some vowels are capitalized, e.g., the first letter in a sentence?

### Example

Example of the file:

# contract goes here  
 def de\_vowel(a\_string):  
 # your code goes here  
  
 no\_vowels = de\_vowel("This sentence has no vowels")  
 print(no\_vowels)  
 # examples go here

Example output:

>>> python3 de\_vowel\_lab.py  
 Ths sntnc hs n vwls

### Bonus

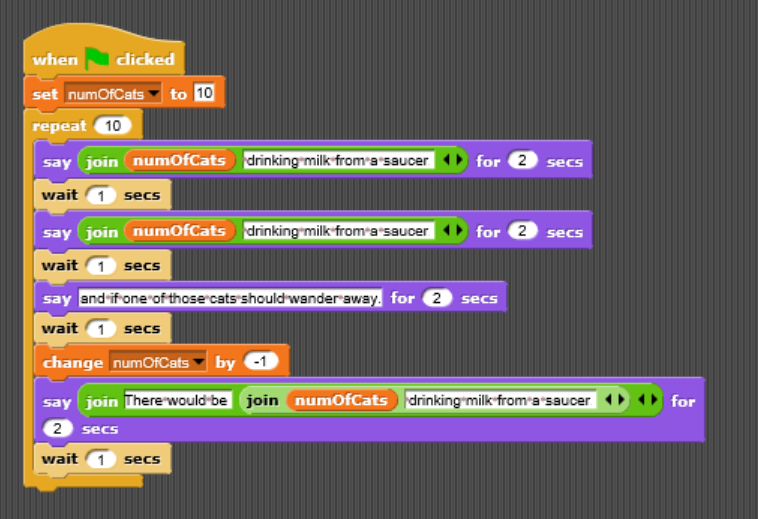
Use a counter (variable you define outside of a loop to keep track of a value inside a loop) to create a function count\_vowels.

count\_vowels takes in a string and returns an int representing the number of vowels in the string.

Can you think of an alternate way to do complete this task without any loop or counter, by making use of your new de\_vowel() function instead?

## SNAP Challenge - 10 Cats Drinking Milk from a Saucer

Create the following program in Python.



Number of Cats