

Python Assignment #5: The String

Key Idea:

- I can select items from strings to either count them or change them

Packet 5 Videos:

[Video 1: Evil Program](#)

Scoring:

You need a minimum of 70 experience points to move on from this packet. How you choose to achieve that task is entirely up to you.

100 Points: A+

90 Points: A

80 Points: B

70 Points: C

Below 70 Points: F

+33 1/3
*Experience
Points*

Challenge #1: Write a program that will take a string and a letter as a variable and counts how many times that letter shows up in the string. The function should return the number of times it shows up. For instance if you call your function on: "abracadabra" and "a" you should get an answer of 5. [Example](#)

Phonetic Alphabet

VIA 9GAG.COM

A - alpha	N - november
B - bravo	O - oscar
C - charlie	P - papa
D - delta	Q - quebec
E - echo	R - romeo
F - foxtrot	S - sierra
G - golf	T - tango
H - hotel	U - uniform
I - india	V - victor
J - juliet	W - whiskey
K - kilo	X - x-ray
L - lima	Y - yankee
M - mike	Z - zulu

Challenge #2: Convert words into the phonetic alphabet!

[Video Example!](#)

***** This must be completed in under 15 lines of code *****

[Need a hint?](#)

+33 1/3
*Experience
Points*

Challenge #3:

I want to be able to enter a word and have you give me the scrabble value of that word! [Example](#)

+33 1/3
*Experience
Points*



Challenge #4: The Mystery Box Challenge. We got a mystery program that has an algorithm for figuring out if the word is good or bad. There are hints all over the place in there if you are clever!!!

Here it is:

[MYSTERY BOX CHALLENGE.](#)

+33 1/3
*Experience
Points*



Challenge #5: Using the program from the previous problem, write a program that will count all of the letters in the string that you type in and print out a summary that shows the letters and their frequency. For instance, with the “bubble” example, your program should print out:

```
What word would you like to cut apart?bubble
b appeared 3 times.
e appeared 1 times.
l appeared 1 times.
u appeared 1 times.
>>>
```

[This could save you a minute](#)

***** This must be completed in under 25 lines of code *****

+33 $\frac{1}{3}$
*Experience
Points*