Activity 1:

Create a function which turns a sentence into the sentence in Pig Latin

def func(sentence):

 …

print(func(‘’Monty Python Flying Circus TV Show is where the language Python got its name’))

# This makes ontyMay ythonPay lyingFay ircusCay VTay howSay siay hereway hetay anguagelay ythonPay otgay tsiay amenay

**This will be done as a class exercise**

Activity 2:

Write a procedure which takes a sentence and prints the words out one on each line, numbering each line as it goes. Hint Your loop must go through the sentence word by word. The numbers will not come from the loop, you need to create them somewhere else.

def func(sentence):

 …

print(func(‘’Monty Python Flying Circus TV Show is where the language Python got its name’)) # This makes

1. Monty
2. Python
3. Flying
4. Circus … etc

Activity 3:

Write a function which will take a sentence and then output the same sentence with every vowel (aieou) replaced by a \*.Hint there is a string function called replace which can be used, however String are immutable so you will need to reassign the string, not just call replace on it.

def func(sentence):

 …

print(func(‘’Monty Python Flying Circus TV Show is where the language Python got its name’)) #

This makes M\*nty Pyth\*n Fly\*ng C\*rc\*s TV Sh\*w \*s wh\*r\* th\* l\*ng\*\*g\* Pyth\*n g\*t \*ts n\*m\*

Activity 4:

Write a function that takes a sentence and a word, and then prints out the rest of the sentence from that word on to the end. Hint there is a function on Strings which can locate where a word starts and there is also a function called len() which will give you the length of a word. Slicing should do the rest.

def func(sentence,word):

 …

print(func(‘Monty Python Flying Circus TV Show is where the language Python got its name’, ‘where’)) # This makes the language Python got its name

Activity 5:

Write a function which takes a list and returns the list with the last element of the list at the front and the rest of the list in order

def func(list1):

 …

print(func([1,2,3,4]) ) # This makes [4,1,2,3]

**This will be done as a class exercise on debugging**

Activity 6:

Write a function that takes a sentence and returns a list with the words sorted in alphabetical order. Hint look up the built in functions on a string and a list, you must go beyond the simple functions here

def func(sentence):

 ….

print(func(“This is a sentence”)) # This makes [‘a’, ‘is’, ‘sentence’, ‘This’]

Activity 7:

Write a function that takes two Strings as inputs and returns a list of all the words in both strings without any duplicates, the words to be sorted in alphabetical order.

def func(text1,text2):

 …

print(func(‘Today I went to the shops’, “I am going to the pool”)) # This makes [‘am’, ’going’, “I’, ‘pool’, ‘shop’, ‘the’, ‘to’, ‘Today’, ‘went’]

There are more practise activities on codingbat.com