Activity 1:

Write a function that takes a word and returns the first and last letter with a \* in the middle.

def func(text):

 value= ...

 return value

print(func(‘find’)) # This makes f\*d

print(func(‘bottle’))#This makes b\*e

Activity 2:

Write a function that takes a name and returns a greeting eg “Hello ..”

def func(text):

 value= ...

 return value

print(func(‘Neil’)) # This makes Hello Neil

print(func(‘Timothy’)) #This makes Hello Timothy

Activity 3:

Write a function that takes two words and puts them together as a single word in ABBA format.

def func(text1, text2):

 value= ...

 return value

print(func(‘Hi’,’Bye’)) # This makes HiByeByeHi

print(func(‘Yo’,’Alice’)) #This makes YoAliceAliceYo

Activity 4:

Write a function that takes a word and returns the first last two letters repeated three times.

def func(text):

 value= ...

 return value

print(func(‘hello’)) # This makes lololo

print(func(‘cotton’)) #This makes ononon

Activity 5:

Write a function that takes a word and returns the middle of the word without the first and last letter.

def func(text):

 value= ...

 return value

print(func(‘hello’)) # This makes ell

print(func(‘bottle’)) #This makes ottl

Activity 6:

Write a function that takes two words and returns the middle of the first word surrounded by the second word at the beginning and the end.

def func(text1,text2):

 value= ...

 return value

print(func(‘hello’, ‘hi’)) # This makes hiellhi

print(func(‘time’, ‘is’)) #This makes isimis

Activity 7:

Write a function that takes a word and returns the word with the first 2 characters moved to the end of the word.

def func(text):

 value= ...

 return value

print(func(‘find’)) # This makes ndfi

print(func(‘bottle’)) #This makes ttlebo

Activity 8:

Write a function that takes a word and returns the word with the last 2 characters moved to the front of the word.

def func(text):

 value= ...

 return value

print(func(‘find’)) # This makes ndfi

print(func(‘bottle’)) #This makes lebott

Activity 9:

Write a function that takes a word and checks if the word ends in ing, if it does it changes it to ly otherwise it just returns the word.

def func(text):

 if .... ==’ing’:

 return ....

 return ....

print(func(‘wing’)) # This makes wly

print(func(‘wand’)) #This makes wand

print(func(‘wondering’)) #This makes wonderly

Activity 10:

Write a function that takes a word and then checks if it has a dot followed by a four letter extension. If it does it deletes the dot and the extension, otherwise it just returns the word.

def func(text):

 if .... ==’.’:

 return ....

 return ....

print(func(‘activities.docx’)) # This makes activities

print(func(‘help file’)) #This makes help file

print(func(‘image.jpeg’)) #This makes image

Activity 11:

Write a function that takes a word and checks if the word begins with bad. If it does it drops the bad and returns the rest of the word, otherwise it just returns the word.

def func(text):

 if .... == ‘bad’:

 return ....

 return ....

print(func(‘badfile’)) # This makes file

print(func(‘bandaid’)) #This makes bandaid

print(func(‘badbadworld’)) #This makes badworld

Activity 12:

Write a function that takes two words and a Boolean. If the Boolean is True it returns the two words in the same order with an @ between them. If the Boolean is False it returns the words ‘Can’t do this’.

def func(text1, text2, boo):

 if boo:

 return ....

 return ....

print(func(‘Neil’, ‘Darwin’, True)) # This makes Neil@Darwin

print(func(‘Tom’, ‘Darwin’, False)) # This makes Can’t do this

Activity 13:

Write a function that takes two words and makes them one single word, however if the last letter of the first word is the same as the first letter of the second word the first letter of the second word is not used.

def func(text1,text2):

 if .... == ....:

 return ....

 return ....

print(func(‘abc’, ‘cat’)) # This makes abcat

print(func(‘cat’, ‘dog’)) #This makes catdog

Activity 14:

Write a function that takes a word. If the word begins with red or blue return that colour, otherwise return ‘not found’

def func(text):

 if ... == ‘red:

 return ....

 if ... == ‘blue’:

 return ...

 return ....

print(func(‘redxx’)) # This makes red

print(func(‘xredxx’)) # This makes not found

print(func(‘blueTimes’)) # This makes blue

Activity 15:

Write a function that takes one word. If the first letter of the word is the same as the last letter of the word return True otherwise return False.

def func(text):

 if .... == .... :

 return ....

 return ....

print(func(‘cat’)) # This makes False

print(func(‘mum’)) #This makes True

Activity 16:

Write a function that takes two words. If the words have the same first three letters return True otherwise return False

def func(text1, text2):

 if ... == ... :

 return ....

 return ....

print(func(‘redxx’, ‘reading’)) # This makes False

print(func(‘xredxx’, ‘xreading’)) # This makes True

Activity 17:

Write a function called pig that take a word, shifts the first letter to the end of the word and add ‘ay’ onto the end.

def pig(text):

 return ....

print(pig(‘cat’)) # This makes atcay

print(pig(‘dog’)) # This makes ogday

Activity 18:

Write a function called ispig that take a word. If the last two letters are ‘ay’ return True otherwise return False.

def ispig(text):

 if ... == ... :

 return ....

 return ....

print(ispig(‘atcay’)) # This makes True

print(ispig(‘xredxx’)) # This makes False

Activity 19:

Write a function which uses the ispig function. If ispig is True it converts the word back into an English word, otherwise it returns the word.

def func(text):

 if ispig(...):

 return ....

 return ....

print(func(‘dog’)) # This makes dog

print(func(‘atcay’)) #This makes cat

Activity 20:

Write a function called reverse that takes a word and reverses it.

def reverse(text):

 return ....

print(reverse(‘cat’)) # This makes tac

print(reverse(‘shark’)) # This makes krahs

Activity 21:

Use the reverse function to write a function called palindrome which will make a palindrome from a word of any length

def func(text):

 return ...

print(func(‘mad’)) # This makes madam

print(func(‘hello’)) #This makes hellolleh

Further activities can be found at http://codingbat.com/python