Lab Recursion (part 2):

1. What is a recursive function? A function that keeps repeating adding on to its value each time.
2. What are the parts of a recursive function? Selection statement or recursive call
3. What is infinite recursion? How does it happen? A recursive function that does not break. Happens when there is no base case to terminate the function.
4. Explain what happens when the following recursive functions, example, is called with the value of 4 as an argument:

def example (n):

if n > 0:

print (n)

example (n-1)

example(4)

The function will print 4, 3, 2, 1 then stop.

1. Explain what happens when the following recursive functions, example1, is called with the value of 4 as an argument:

def example1(n):

if n > 0:

print(n)

example1(n)

else:

example1(n-1)

example1(4)

The function will get stuck in an infinite loop as n will always be greater than 0.