Mini Challenge 1

Write a function using variable number of parameters concept to count the number of occurances of each character in a given bunch of strings.

Note: Function returns a dictionary.

Example function call & Output:

countChars("Gary", "Kris", "Cathy", "John", "Alex")

{'I': 1, 'K': 1, 'R': 2, 'N': 1, 'E': 1, 'H': 2, 'X': 1, 'O': 1, 'C': 1, 'S': 1, 'T': 1, 'A': 3, 'J': 1, 'L': 1, 'Y': 2, 'G': 1}

In [1]:
```
def countChars( *args):
    charDict = {}

    for s in args:
        for c in s:
            c = c.upper()
            if( c in charDict ):
                charDict[c] = charDict[c] + 1
            else:
                charDict[c] = 1

    return charDict

charCounter = countChars("Gary", "Kris", "Cathy", "John", "Alex")
print( charCounter )
```

```
{'K': 1, 'I': 1, 'X': 1, 'A': 3, 'R': 2, 'S': 1, 'H': 2, 'L': 1,
'T': 1, 'C': 1, 'O': 1, 'Y': 2, 'G': 1, 'E': 1, 'J': 1, 'N': 1}
```

Mini Challenge 2

Write myRange function, that takes one, two or three parameters and produces numerical sequences, just like Python's range function.

Note: This function will return a range object. We have to use list() function to see the contents:

Example Call:

R = myRange(5, 30)
print(list(R))

In [2]:
```
def myRange( *args ):
    """ My Range Function """
    start = stop = step = 0
    if( len(args) == 3):
        start = args[0]
        stop = args[1]
        step = args[2]

    elif( len(args) == 2):
        start = args[0]
        stop = args[1]
        step = 1

    else:
        start = 0
        stop = args[0]
        step = 1

    i = start
    while( i < stop ):
        yield i
        i = i + step

A = myRange(5,30, 2 )
print(list(A))
```

```
[5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29]
```

In [ ]: