# Assignment #7

## Generating Sequences

Write definitions for each of the following Python functions, and for each function, include a clear and concise comment to describe its purpose. Use only the Python topics covered so far in class.

## 1. Join( strings )

```
The result of concatenating, in order, all strings in the list-of-strings 'strings' Join(["to", "get", "her"]) \Rightarrow "together"
```

## CumulativeSums( numbers )

A copy of the numeric list 'numbers', but with each item replaced by the sum of all items up to and including it

```
CumulativeSums( [ 5, 2, 4, -3, 6 ] ) \Rightarrow [ 5, 7, 11, 8, 14 ] CumulativeSums( [ 1, 2, 3, 4, 5 ] ) \Rightarrow [ 1, 3, 6, 10, 15 ] CumulativeSums( [ 0, 0, 0 ] ) \Rightarrow [ 0, 0, 0 ] \Rightarrow [ 0, 0, 0 ]
```

### CommonTwo(string1, string2)

The string formed from all characters which appear in both strings 'string1' and 'string2', in the order of their appearance in 'string1'; assume that neither of the parameter strings contains duplicate characters

```
CommonTwo( "star", "wars" ) ⇒ "sar"
CommonTwo( "cork", "rock" ) ⇒ "cork"
CommonTwo( "cork", "dublin" ) ⇒ ""
```

#### 4. CommonAll( strings )

The string formed from all characters which appear in every string in the list-of-strings 'strings', in the order of their appearance in the first string in this list; assume that none of the parameter strings contains duplicate characters

#### Program Submission:

Store the function definitions in a file named 'a07.py', and turn it in for grading by typing: submit-cs1117 a07.py

Due Date: Fri Oct 30, 11:00am