

## Activity 2-2

*March 1, 2012*

### Task 1: Review from Last Class

1. On the Desktop, make a folder called ACT2-2. Download ACT2-2.py, poem.txt, and MobyDick.txt, and save them in the ACT2-2 directory.
2. Open IDLE and look at ACT2-2.py. Remind yourself of what the two functions actually do.
3. Press F5 (or select Run...Run Module). What happens?
4. Assign the list [-5,0,-2] to the variable myList. Use the avg3() function to compute the average.
5. Use the addOne() function to add one to myList[2].
6. The split function, without an input argument, splits a string on any whitespace (including spaces, newlines, tabs, etc.). Use the split() function to split the variable stringToSplit on **different** delimiters. Observe what happens when you enter the following expressions:

```
stringToSplit.split('\n')
stringToSplit.split('a')
stringToSplit.split('out')
```

### Task 2: Count the Number of Words in Moby Dick

In ACT2-2.py, write a readMobyDick() function and a countWordsInMobyDick() function. Note that only a few things change from the Shel functions.

### Task 3: More Functions

Enter the following statements into the IDLE interpreter and observe what happens. The line numbers shouldn't be entered.

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```
1 myString = `hi there!`
2 len(myString)
3
4 myList = myString.split()
5 myList
6 len(myList[0])
7 len(myList[1])
8
9 x = 10
10 y = 15
11
12 x + y
13 str(x) + str(y)
14 x / y
15 x / float(y)
16
17 oneThruTen = range(1,11)
18 oneThruTen
19
20 negNums = range(-10,1)
21 negNums
```

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