

Activity 2-3

March 6, 2012

Task 1: Understand and Run Last Class's Programs

Download and save ACT2-3.py. Open it in IDLE.

1. Look at `readMobyDick()`. Make sure you understand the following line:

```
fileString = fileString[0:1000]
```

2. Look at `CountWordsInMobyDick()`. Make sure you understand the following lines:

```
for word in myList:  
    count = count + 1
```

3. Press F5 and run `CountWordsInMobyDick()`. What's your answer?
4. Comment out **two** lines in `readMobyDick()` to count all the words in MobyDick (hint: one of the lines is a print statement). Press F5 again and run `CountWordsInMobyDick()` again. What's your answer?

Task 2: More Python Practice

Do this activity with a partner. You don't have to turn anything in.

1. **With a pen or pencil**, write what you expect to see for each expression below. Assignments will return nothing, so don't worry about those.
2. Enter the statements below and verify your answers. The green line numbers are for reference only.

```
1 myString = `hi there!`
2 len(myString)
3 myList = myString.split()
4 len(myList[1])
5
6 x = 10
7 y = 15
8 str(x) + str(y)
9 [x]+[y]
10
11 range(1,11)
12 range(3,10)[0] #this is tricky
13
14 negNums = range(-7,1)
15 negNums[3:5]
16
17 (x == 10) and (str(y) == 'fifteen')
18 (x < 4) or (y*0.1 < 4)
19
20 if len(myList[1]) > 10:
21     print myList[1], 'has length > 10'
22 else:
23     print myList[1], 'has length <= 10'
24
25 def tip(bill):
26     return bill * 0.15
27
28 tip(100.00)
```
