Introduction to Python Computer Programming

North Star High School

Unit 9

Word Play

# Reading Material

The text for this unit is Think Python chapter 9 (pages 83 through 88).

It is encouraged to work on your reading with the Python interpreter open on your computer, so that you can type in the examples and experiment as you read.

# Guided Reading

Please complete the following questions using the assigned reading above.

1. Python can open plain text files using the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ function. (open)
2. This open function returns a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . (file object)
3. One method of reading a file provided by a file object is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , which reads characters from the file until it gets to a newline and then returns the result as a string. (readline)
4. The file object keeps track of where it is in the file, so if you call readline again, you get \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . (the next word)
5. When you recognize the problem you are working on as an instance of previously solved problem, it is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . (reduction to a previously solved problem)
6. One of the obvious cases where errors often lurk is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . (special case)

**Be sure that you are familiar with all of the definitions in the glossary (section 9.6)!**

**Also, please browse the Python documentation for reading files!**

**(https://docs.python.org/3.3/tutorial/inputoutput.html#reading-and-writing-files)**

# Assignment

1. Write a function that takes a word, reverses it, then prints it out. (a1.py)
2. Exercise 9.7 in the text. (ex\_9.7.py)
3. Exercise 9.9 in the text. (ex\_9.9.py)