**Practice Activity -- Python Vocabulary Justin Clark**

**Section 03**

Write a short answer for each of the following:

1. What is a **variable**?
   * A variable is a memory location to store data with an easy to remember name
2. Name three different **data types**. What kind of information does each represent?
   * Numeric – a value that can be calculated
   * Text – text can be any kind of character including numbers, but typically words
   * Boolean – True or False
3. What Python tool can you use to get **input** from the user?
   * The command line shell
4. Which two built-in functions allow you to convert a string value to a number?
   * int() and float()
5. What Python tool can you use to show **output** to the user?
   * The command line shell
6. Explain how to write a Python **comment**.
   * # start the line with the number sign
7. Show an **operator precedence** table for the 7 mathematical operators.
   * ()
   * \*\*
   * \* / // %
   * + -
8. Explain what an **escape character** is and give at least two examples.
   * An escape character is used to tell the interpreter to ignore what comes next
     + 'Hello, what\'s your name'
     + "Say \"Cheese!\" when taking a photograph"
9. Show two different ways to write a **string literal**.
   * 'this is a string literal'
   * "this is another string literal"
10. Show an example of how a Python statement can be extended over more than one line.
    * multiLinePythonStatement = 'this is an example of a multiline' + \

'statement in Python'

1. Explain the **naming rules** for variables.
   * Must begin with a letter, can only contain letters, numbers, and underscores
2. Read Section 2.1 in the text and identify two different tools that programmers use to design programs on paper before beginning to write actual code.
   * Pseudo code and Flowcharts