Python Questionnaire

## **Tutorial 1 - Basics**

1. What is the difference between a string and an integer/float?
   * What makes a float different from an integer?
   * Given a variable, x, what is the command to get python to print out the type of x?
   * What is a keyword?
   * Solve 3.14 \* 6 \* 6. Program it to produce output.
2. What is an operator?
3. What problem arises in integer division?
   * I want to divide 1 by 3 and get a result like: 0.333333333333. What is the exact command to do this?
   * *HINT*: you must use floats! What do floats have that integers do not have?
4. Integer division always rounds which way? (up or down)
5. What is concatenation, and on what type of variables (integers/floats/strings) does it operate on?
6. Why do we use comments? (what is their purpose) Enter the following code:

>>> 1 == 1  
  
 >>> "1" == "1"  
  
 >>> 1 == "1"

Why is the third line false, while the first 2 lines are true?

10. Write a Python program to print the numbers of a specified list after removing even numbers from it.

Solutions

1. Float has decimals
2. type(x)
3. Words specific to a particular programming language like “if”, “else”, “while”, “def” etc.

10. mylist = [2,3,4,5,6,7,8]

for i in mylist:

if i%2 == 0:

mylist.remove(i)

5. strings

Because its a comparison between string to an integer

1. to make the code easily readable
2. down
3. Addtion, subtraction, division etc
4. Float(1/3)