COMPUTER SCIENCE 101 PYTHON PRACTICE QUESTIONS

Start getting prepared for the Python Exam with this document. Bring questions and confusions to class on **Wednesday, December 1st**. This is not a CSCI 101 homework assignment and doing these problems will not earn you extra credit. Doing these problems will, however, help you get ready for the Python exam!

Example True/False Questions:

____ The expression 9 % 5 is equal to 4.

_____ Variables are case sensitive, e.g., var is different than Var.

_____ The concept of abstraction allows users of a function to ignore the details of the function implementation.

_____ Underscores are allowed in variable names, but not at the beginning.

____ The condition not (A and B) evaluates to True if one or more of A and B is false.

Example Fill in the Blank Questions:

The ______ statement will quit a loop, i.e., stop the loop from repeating further.

Consider the function definition: def create_user(name, age)

name and age are _____ of the function.

A while loop exits when its condition evaluates to ______.

Example Code Tracing Questions:

Write the output of the following snippets of code OR write "error" if there is an error. Also, specify what the error is (if an error exists).

```
x = 'qwer'
       for i in range(len(x)+1):
           x = x + '!'
       print(x)
w = "mines.edu"
    for c in [0, 3, 2, 1]:
       print(c[w])
my list = []
for i in range(8, 2, -2):
    my list.append(i//2)
     i += 2
print(my list)
```

Example Code Writing Questions:

Suppose the following list is declared.

bigList = [[1, 2, 3, 4, 5], [6, 7, 8, 9], [10, 11, 12]]

Write a single Python statement that will print the value 8 from bigList.

Implement the following pseudocode. You can assume the user provides correct input.

-While x is not 999
-ask user for input
-print sin(x)
-add x to list
-if x is the largest value in the list, print "WOW"

Write the definition for a function called nPrint which takes in the number of times to print (n) and the string to print (value), outputs value to the console n times, and then returns an increment of n (i.e., n+1).

Write a function called <code>list_stats</code> that, given a list of numbers, prints the minimum, maximum, and average of the numbers in the list.