**FUNCTION TEST REVIEW**

1. \_\_\_\_\_\_functions\_\_\_\_\_\_\_\_\_ are used to break complex problems into small problems to be solved one at a time.
2. The purpose of a function is to perform a specific task. True / False
3. List three benefits from using functions:
4. Elimination of repletion
5. reusability
6. Reduction of complexity
7. The key word that defines functions and creates the functions existence is \_\_\_\_\_def\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. The first line of each function is called \_\_\_\_\_\_\_\_\_\_\_function header\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. Variables that allow data to transfer from the function call to the function are called \_\_\_\_\_\_\_\_\_\_return\_\_\_\_\_\_\_\_\_\_\_\_
10. \_\_\_\_\_\_\_\_\_local \_\_\_\_\_\_\_\_\_\_\_\_ is a variable / storage location that is limited to a specific function
11. \_\_\_\_\_\_\_\_\_global \_\_\_\_\_\_\_\_\_\_\_\_ is a variable that has access to every function with in the entire class
12. Every function must have parameters. True / False
13. The keyword that allows data to be transferred back to the function call is \_\_\_\_\_\_return\_\_\_\_\_\_\_\_\_\_\_\_
14. All functions return the result of their task / data back to the function call. True / False
15. List three Python built in functions that we have used in class:
    1. float
    2. round
    3. str
16. Write a function header that will receive 2 numbers and calculate their average, name the function **avg**.

Def avg (n1, n2):

avg= n1+n2/2

return avg

1. Write a function call for the **avg** function from the previous question

avg=avg(n1,n2)

1. The name for functions that are created by you the programmer is?

User defined functions

1. The parameters in a function call and the corresponding function header must match in:
   1. order
   2. amount
2. What is the purpose of a parameters?

To call other functions data to make arguments

1. Write a function header that have 3 parameters (*first, last, grade*) with a function name **test**().

Def test (first, last, grade):

1. Write a function call that will have 3 data value return to it (*first, last, grade*) from a function named **enter().**

first, last, grade=enter()

1. Which of the following is a valid function header:
   1. def first(p,o,i):
   2. def last(h,l,p)
   3. def mid()
2. Write a **FUNCTION** that will return multi-values specifically the person name, phone number, and address. Name the function **enter** and have the user enter their name, phone number and address and then return the data.

Def enter():

name= raw\_input(“enter your name: ”)

phone= raw\_input(“enter your phone number: ”)

address= raw\_input(“enter your address: ”)

return name, phone, address

1. Write a **FUNCTION** that will receive 3 float values from the function call. Name the function calc. The function has 3 tasks. **DO NOT** put the number into a ***List***

Task 1 – Determine the largest value of the three values

Task 2 – Calculate the average of the three values (rounded to a maximum of 2 decimal points)

Task 3 – Determine if the sum of all three values is a prime number – This will produce a result with a string answer of *prime* or *not prime*

The function will return all three derived answers back to the function call

Def calc (n1,n2,n3):

if n1>n2>n3:

return n1

elif n2>n3>n1:

return n2

else:

return n3

avg= round((n1+n2+n3)/3,2)

for x in range (n1,n2,n3):

for devisee in range (2,x ):

if devisee % divisor == 0:

prime = “not prime”

return prime

else:

prime= “prime”

return prime