## **Assignment 3**

## 1. Why are functions advantageous to have in your programs?

**Reduced Redundancy** 

Precision

Ease of repeatability

2. When does the code in a function run: when it's specified or when it's called?

when it's called

3. What statement creates a function?

def

#### 4. What is the difference between a function and a function call?

**Function** is the set of predefined instructions, specified by the user.

**Function call** is a call/signal to execute the predefined instructions that are in function.

5. How many global scopes are there in a Python program? How many local scopes?

One Global Scope in a Python program. One or More Local Scopes in a Python program.

6. What happens to variables in a local scope when the function call returns?

In a local space, Variable value inside the function will be used for executing the commands within the function.

#### 7. What is the concept of a return value? Is it possible to have a return value in an expression?

- To end the execution of Function
- While defining a function, if any line of code is written after return, that will not be executed.
- If return is used in place of "print", the datatype is retained. But the print will convert any datatype to "Nontype" datatype

# 8. If a function does not have a return statement, what is the return value of a call to that function?

None() or Nonetype()

# 9. How do you make a function variable refer to the global variable?

First, function variable needs to declared globally before the function. And then, by calling it without assigning a new value to it.

#### 10. What is the data type of None?

NoneType

#### 11. What does the sentence import areallyourpetsnamederic do?

It will show "ModuleNotFoundError"

# 12. If you had a bacon() feature in a spam module, what would you call it after importing spam?

Import spam

spam.bacon()

#### 13. What can you do to save a programme from crashing if it encounters an error?

To avoid crashing of the program, introduce Try and Except Clauses

#### 14. What is the purpose of the try clause? What is the purpose of the except clause?

#### Try Clause:

• Its purpose is to find out whether a block of code is throwing a error or not.

- If there is no Error, code in the 'try block' is executed.
- If the Error exists, code in the 'try block' is terminated and is passed on to the Except Clause

# **Except Clause:**

• Its purpose is to handle the execution (i.e Error) by executing the user defined Except Clause, thereby avoiding the crashing of the code/program.