**Assignment 3**

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

-to organize our code into logical section

-we can optimize frequently used code within function

-once we define a function, we can reuse it throughout our program

-we can break our code in smaller, more manageable pieces -function make our program more readable and robust

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

-the code in function runs when the function is called not when its specified.

3. What statement creates a function?

- ‘def’ statement create a function.

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

-function is a reusable block of code that preforms specific task or set of tasks.

-function accept argument and return result.

- you have to defined a function before used in program.

-function call

-is used to executing a defined function.

-the function call typically returns a value if a function is defined to do so.

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

-there is only one global scope per program. But there can be multiple local scopes.

Whenever a function called new local scope created.

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

-when the execution of function return, then the variables are destroyed.

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

-yes, it is possible to have a return value in expression

-when function return a value, you can use that value directly within an expression.

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

- ‘None’ is the value.

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

-by using global keyword

ineuron=100

def func\_variable ():

global func\_variable

func\_variable=50

func\_variable ()

print(func\_variable)

10. What is the data type of None?

result = None

print(type(result))

output: <<Nonetype>>

11. What does the sentence import areallyourpetsnamederic do?

-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?

-we can use error handling technique like, try-except, finally, logging, custom error handling

Without abrupt program termination.