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

ANS : Structured programming and re-usability of code

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

ANS : When the function called.

1. What statement creates a function?

ANS: the syntax is :

def <function Name>:

Code

Eg: def square(a):

s= a\*\*2

Return s

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

ANS: A function is where a specific functionality i.e. block of code is defined whereas a function call is line of code where the function is called and then the control goes in function definition to run the same line by line.

For eg:

# function definition

def sum(a,b):

return a+b

# function call

sum(2,3)

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

ANS: In python there are 04 types of scopes:

Local Scope

Global Scope

Builtin Scope

Enclosing Scope

For eg:

A = 10 # variable with global scope

def localtest():

B = 20 # variable having local scope

def enclosing(d):

print(d) # variable d having Enclosing scope or non local scope

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

ANS: The local variables have no scope outside the function. It can only be used within the function.

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

ANS: After performing the operation on arguments the function will evaluate some result that can be send back to caller for further usage in program , by using the return statement inside the respective function definition.

Yes, the return value can be an expression

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

ANS: None

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

ANS: by using global keyword

For eg:

def test():

global value

value = 1

print("The value defined in the function is: ", value)

test()

print("Outside function Value is", value)

1. What is the data type of None?

NoneType

1. What does the sentence import areallyourpetsnamederic do?

ANS: I guess there is no module with this name in python so this line will raise an error

**ModuleNotFoundError**: No module named 'areallyourpetsnamederic'

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

ANS: spam.bacon()

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

ANS: Exception Handling

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

ANS: try block test the block of code if the same can produce an error and expect block handles the error.

For eg:

A = 0

B = 10

try:

B/A # code that could raise an error and interrupt the execution of complete program

except Exception as e:

print(e)