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

Functions **reduce the need for duplicate code**. This makes programs shorter, easier to read, and easier to update

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

When it is called

1. What statement creates a function?

def xyz():

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

A function is a block of code that does a particular operation and returns a result. It usually accepts inputs as parameters and returns a result. The parameters are not mandatory. A function call is the code used to pass control to a function.

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

At any given time during execution, you'll have at most four active Python scopes—local, enclosing, global, and built-in—depending on where you are in the code. On the other hand, you'll always have **at least two active scopes**, which are the global and built-in scopes.

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

Each call of the function creates new local variables, and their lifetimes expire when the function returns to the caller.

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

A return is a value that a function returns to the calling script or function when it completes its task. A return value can be any one of the four variable types: handle, integer, object, or string. The type of value your function returns depends largely on the task it performs.

**A Python function will always have a return value**. There is no notion of procedure or routine in Python. So, if you don't explicitly use a return value in a return statement, or if you totally omit the return statement, then Python will implicitly return a default value for you.

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

if you don't explicitly use a return value in a return statement, or if you totally omit the return statement, then Python will implicitly return a default value for you.

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

Normally, when you create a variable inside a function, that variable is local, and can only be used inside that function. To create a global variable inside a function, you can **use the global keyword**.

1. What is the data type of None?

The None keyword is used to define a null value, or no value at all. None is not the same as 0, False, or an empty string. **None is a data type of its own (NoneType)** and only None can be None.

1. What does the sentence import areallyourpetsnamederic do?

It imports the module areallyourpetsnamederic

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

This function can be called with **spam.** **bacon()**.

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

Error handling can be used to notify the user of why the error occurred and gracefully exit the process that caused the error.

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

The try block lets you test a block of code for errors. The except block **lets you handle the error**.