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

**Functions are used to reduce the repetitive efforts to achieve a similar outcome from a block of code. As a function with its execution logic needs to be created once only and then this function can be called at any point in the program as per relevant use case. They save a lot of coding and potential coding errors.**

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

**A function runs when it is called.**

3. What statement creates a function?

**‘def’ is a standard python keyword to define a function.**

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

**A function is a block of code having function name, definition and execution logic and return value. A function call is a way to execute the function in a program by calling the function.**

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

**Global scope: 1 only as global variables are defined in the beginning of the program.**

**Local scope: They are defined in the boundaries of a function, so every time a function is called, defined local variables get created.**

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

**As soon as a function returns a value, the local scope variable gets deallocated/removed from the memory.**

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

**Return value is part of a function telling the program to what value to return when that function is executed. Return values can not be defined for expressions…they are used within the function definition.**

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

**It will return None if no return value is specified in the function.**

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

**By using the ‘Global’ keyword in the function while using the global variable in a function.**

10. What is the data type of None?

**Data type of ‘None’ is NoneType.**

11. What does the sentence import areallyourpetsnamederic do?

**If areallyourpetsnamederic is a predefined function in a standard python library, then it will import the other function within areallyourpetsnamederic library. But if there is not predefined package by this name, it will throw an error.**

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

ex:

**import spam**

**spam.bacon()**

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

**By using exception handling methods. Using Try, Exception code blocks to ensure errors do not stop the program execution.**

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

**Try clause:**

**This code blocks lets program to execute the defined logic/expression in all possible conditions. It is used to defined the code that has chances to throw exceptions at some point.**

**Except “errorType”:**

**This clause says that out of all the possible conditions of TRY, when “errorType” is thrown at any point in the execution, execute this Except block and provide appropriate warning to end user with respect to the error.**