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

* Reducing duplication of code
* Imporve clarity of the code
* Information hiding
* Reducing code

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

A python function a set of code that performs a specific task and can used whenever needed just by calling it.

**3. What statement creates a function?**

The “def” keyword is a statement for defining a function in Python

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

|  |  |
| --- | --- |
| **function** | **function call** |
| It is a procedure to achieve a particular result. | It used this function to achive that task. |
| A function is a block of code. | A function call is the code used to pass control to a function. |
| EX:- Function add(a,b)  return a+ b | EX:- b = add(5,6) |

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

* **Global scope:**The names that you define in this scope are available to all your code.
* Only one global Python scope per program execution.
* **Local scope:**The names that you define in this scope are only available or visible to the code within the scope.

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

local variables are destroyed

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

The Python return statement instructs Python to continue executing a main program. You can use the return statement to send a value back to the main program, such as a string or a list.

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

It returns None

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

using the global keyword to declare which of the variables are global.

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

Null value

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

imports a module named areallyourpetsnamederic

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

Spam.bacon()

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

error handling will be used

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

**Try clause:-** test code for an error which is written in the “try” statement

**except clause:-** catches an exception