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

Ans- Advantages of functions

- a)**Reusability** by allowing to encapsulate a block of code that performs a specific task
- **b)Modularity-** by breaking down code in smaller pieces
- c)Readability-by making code more readable and self explanatory
- d)Scalability-by allowing to add new features
- 2. When does the code in a function run: when it's specified or when it's called?

Ans- Code inside a function runs when the function is called

3. What statement creates a function?

Ans- Def statement is used to define a function . E.g.

def function_name(parameters):

Function body (code to be executed)

...

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

Ans- Function is a block of code that performs specific code when invoked.

Function Call is the act of invoking a function that perform its defined task.

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

Ans- In Python, there is 1 Global Scope and Multiple Local Scope.

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

Ans- When a function call returns in Python, the local variable defined within the functions's scope are destroyed and memory associated with them is released.

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

Ans- Return value in a programming refers to a value that a function provides as its result when it is executed.

Yes, it is possible to have return vale in an expression.

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

Ans- Without return statement in a function , the function will automatically return a special value called None.

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

Ans- By using 'global' keyword.

10. What is the data type of None?

Ans- "None Type" is the data type of None.

11. What does the sentence import areallyourpetsnamederic do?

Ans- "areallyourpetsnamederic" is not a valid Python function, hence it would result in error.

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

Ans- import spam # Import the spam module

Call the bacon() function from the spam module spam.bacon()

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

Ans- 'try' and 'except' error handling techniques can be used when error is encountered.

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

Ans- Try Clasue is used to enclose a block of code that might raise an error during its execution.

Except Clause is used to specify how a program should respond when a specific type of error occurs within a try block.