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?

 Python goes back and looks up the definition, and only then, executes the code inside the function definition

1. What statement creates a function?
2. Use the def keyword to begin the function definition.
3. Name your function.
4. Supply one or more parameters. ...
5. Enter lines of code that make your function do whatever it does. ...
6. Use the return keyword at the end of the function to return the output.
7. What is the difference between a function and a function call?

A function is procedure to achieve a particular result while function call is using this function to achive that task.

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

There's only **one global Python scope per program execution**. This scope remains in existence until the program terminates and all its names are forgotten. Otherwise, the next time you were to run the program, the names would remember their values from the previous run.

Local scopes can be as many as we want..

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

When the execution of the function terminates (returns), **the local variables are destroyed**.

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

**A return statement is used to end the execution of the function call and “returns” the result (value of the expression following the return keyword) to the caller**.

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

If return value is not used explicitly in a return statement, or if the return statement is omitted totally,then Python will implicitly return a default value and that default return value will always be None.

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

**use the global keyword to declare which variables are global**.

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?
2. 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?

 Prevents program from crashing if an error occurs. If an error occurs in a program, we don't want the program to unexpectedly crash on the user. Instead, **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?

In the try clause, all statements are executed until an exception is encountered. except is used **to catch and handle the exception(s) that are encountered in the try clause**.