**Assignment No.:- 3**

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

**Ans: -** **Functions reduce the need for duplicate code. And hence this makes programs shorter, easier to read, and easier to update.**

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

**Ans: -The code in a function run when it’s called, not when it’s specified.**

3. What statement creates a function?

**Ans:-The def statement defines a function.**

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

**Ans:-A function consists of a def statement and the code in its def clauses. And a function call is what moves the program execution into the function, and the function call evaluates to the functions return value.**

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

**Ans:-There is a one global scope and a local scope is created whenever a function is called.**

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

**Ans:-When a function returns, the local scope destroyed, and all the variables in it are forgotten.**

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

**Ans:-A return value is the value that a function call evaluates to. Like any value, a return value can be used as a part of an expression.**

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

**Ans: - If there is no any return statement for a function, then its return value is None.**

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

**Ans:-A global statement will make a function variable refers to the global variable.**

10. What is the data type of None?

**Ans:-None type**

11. What does the sentence import areallyourpetsnamederic do?

**Ans:-That import statement imports a module named areallyourpetsnamederic.**

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

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

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

**Ans:-Place the line of code that might cause an error in a try clause.**

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

**Ans:-The code that potentially cause an error that goes in the try clause. And the code that executes if an error happen goes in the except clause.**