**Assignment\_3**

Q1. Why are functions advantageous to have in your programs?

Ans: The advantages of using functions are:

* Avoid repetition of codes.
* Increases program readability and modularity
* Divide a complex problem into simpler ones.
* Reduces chances of error.
* Modifying a program becomes easier by using function.

Q2. When does the code in a function run: when it's specified or when it's called?

Ans: The code in a function executes when the function is called, not when the function is defined.

Q3. What statement creates a function?

Ans: The def functionName() createes a function

Q4. What is the difference between a function and a function call?

Ans:

A Function : Function is a block of code that does a particular operation and returns a result. It usually accepts inputs as parameters and returns a result. The parameters are not mandatory.

A Function call : Funtion call is the code used to pass control to a function

Q5. How many global scopes are there in a Python program? How many local scopes?

Ans: There is one global scope, and a local scope is created whenever a function is called

Q6. What happens to variables in a local scope when the function call returns?

Ans: When a function returns, the local scope is destroyed, and all the variables in it are forgotten. we will not be able to access the out side the function

Q7. 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. A return value can be used as part of an expression, Like any value.

Q8. 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 return statement for a function, its return value is None

Q9. How do you make a function variable refer to the global variable?

Ans: By representing a variable by global keyword in the body of a function

use ‘global’ keyword before the variable name at start of function.

Q10. What is the data type of None?

Ans: The data type of none is NoneType

Q11.What does the sentence import areallyourpetsnamederic do?

Ans: areallyourpetsnamederic ia not a python module. Importing this module will throughs ModuleNotFoundError exception