**Full Stack Bootstrap datascience:**

**Assignment-3**

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

Ans. Increases program readability. Divide a complex problem into simpler ones. Reduces chances of error. Modifying a program becomes easier by using function.

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

Ans . Now, whenever a function is called a new stack frame is created with all the function's data and this stack frame is pushed in the program stack, and the stack pointer that always points the top of the program stack points the stack frame pushed as it is on the top of the program stack.

**3.** What statements create a **function**?

Ans .  A function is created with the **def keyword**. The statements in the block of the function must be indented.

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

Ans. The Function which calls another Function is called Calling Function and function which is called by another Function is call Called Function.

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

**Ans.** there are only two scopes are their in python used for variable declaration globally or local section in the or programmed.

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

**Ans.** The solution would be to **dynamically allocate memory to a variable to hold the address and pass it to the function as a parameter**.

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

**Ans. 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. The statements after the return statements are not executed. If the return statement is without any expression, then the special value None is returned.

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

**Ans.** If no return statement appears in a function definition, control automatically returns to the calling function after the last statement of the called function is executed. In this case, the return value of the called function is **undefined**.

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

Ans. Use the global keyword to declare which variables are global.

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

**Ans.**  It is used for defining a none value approx zero(0). This is keyword.

**11.** What does the sentence import areally ourpetsnamederic do?

**Ans.** This is not a module of real import ,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.**  **Try running the program** and it should throw an error message instead of crashing the program.

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

**Ans.** The try block lets I test a block of code for errors. The except block **lets i handle the error**.