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Assignment 3

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

**Ans:** functions advantageous to have in our programs because It reduce code length, it prevent from duplicate codes, reduce time of execution, we can easily update or modify our code as well.

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

**Ans**: When the function call then only the code in a function run.

1. What statement creates a function?

**Ans**: In python we use this statement to create function:

**def function\_name(para\_1, para\_2)**:

**Logic**………….

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

**Ans: Funtion:**  Function is just a block code where we write our logic and call that function whenever it required.

**Example:** def add(num1, num2):

**Function**

sum = num1+num2

return sum

**Function call:** For execution of above code, we need to call that function otherwise it will not executed.

**Example:** result = add(4,5)

**Function Call**

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

**Ans:**  There are only 1 global scope present in a Python program and it will remain until the program is terminated. There can be multiple local scope in program.

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

Ans: When the function call returns the variables in a local scope is destroyed or deallocate from memory.

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

Ans: The concept of a return value is, if a function which provide a logic of addition of two number and we want that result outside the function then we return the result from function body to outside the function which store the return value to any variable for further uses.

Yes it is possible to have a return value in an expression.

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

Ans: If a function does not have a return statement, the return value of a call to that function is **None**.

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

Ans: We can make a function variable refer to the global variable by using global keyword to declare which variables are global.

1. What is the data type of None?

Ans: None is a datatype of its own.

1. What does the sentence import areallyourpetsnamederic do?

Ans: The sentence import areallyourpetsnamederic is import the module name areallyourpetsnamederic.

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

Ans: **spam.bacon()**

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

Ans: We use try and catch block to save a programme from crashing if it encounters an error.

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

Ans: **Try clause** run the code at very first time until an exception is encountered and if code have some error then it will throw to the catch block.

**Catch clause** catch the error and give a message to a console, whatever error came.