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Solutions to Assignment\_3

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

**Ans:**

If a segment of code is expected to be executed multiple times then it is better to make a function containing those segment of code. If we do not use functions then we have to write (copy and paste) same code each time and the program will be difficult to read and maintain.

Suppose if any changes are required to be made in these repetitive block of code then it will be difficult for us to locate all such segment and make same changes everywhere.

If we make a function with these block of code then modifying at one place will do the job and therefore it will much less cumbersome to maintain the code.

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

**Ans:**

The code inside a function runs only when it is called.

1. **What statement creates a function?**

**Ans:**

The def statement creates a function.

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

**Ans:**

Function is collection of codes intended to perform a particular task which is defined under def statement and function call is invoking / calling that function for execution of the codes which has been written inside that function.

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

**Ans:**

Global scope :- There is only one global Python scope per program execution. This scope remains in existence until the program terminates and all its names are forgotten.

**Local Scope :** A local scope is created whenever a function is called.