

## Assignment 3

### Solutions

1)

Advantages of using functions in program:

- a) It helps in reducing redundancy of code in the program and saves time
- b) Same code can be used many times without writing the whole code again (by calling the function)
- c) Complex program can be divided by making different functions for specific tasks
- d) Program becomes easy to understand
- e) Easy modification of the program can be done by making changes in the functions

2)

The code in the function runs when the function is called.

3)

def statement creates a function.

4)

A function is a block of code written to do a particular task and obtain the result. A function call is a statement when we call the function to perform the task by passing the parameters if required.

5)

There is one global scope in a python program. There can be many local scopes depending on the number of functions and functions call in the program.

- 6)  
The variables in the local scope exists only for the time when the function is being executed. They get destroyed after the function execution.
- 7)  
**return** is used inside the function to return a value after the computation done by the function. **return** cannot be used outside the function so it is not possible to use **return** in an expression.
- 8)  
A function returns **None** if it does not have a return statement
- 9)  
We can use the **global** keyword to define a global variable inside a function.
- 10)  
Datatype of **None** is `NoneType`
- 11)  
The statement `import areallyourpetsnamederic` imports a module named `areallyourpetsnamederic` if it exists
- 12)  
We will call it as `spam.bacon()`
- 13)  
We can use try clause in this case
- 14)  
The code that can raise an error is written in the try clause and the code that we want to get executed in case if error is raised is placed in the except code