**Functions**

Functions is a reusable block of code to perform specific action.

In functions we have

1. Built-in Functions
2. User-defined Functions
3. Lambda Functions
4. Recursive Functions

**Built-in Functions:**

Buit-in functions are already available for reuse. We are already using functions which are already predefined.

* print()
* int()
* str()
* len()

these are some built-in functions which we use most frequently in python.

**User-defined Functions**

Functions are defined with the def keyword.

Function should be defined before calling it.

Variable defined inside a function can only be used in it.

To return a value from the function we use return keyword.

Creating a function:

Syntax:

def function\_name():

Calling a function:

Syntax:

def function\_name():

function\_name()

Passing arguments:

Syntax:

def function\_name(str):

msg = “hello”+str

return msg;

a = input()

result = function\_name(a)

print(result)

**Lamda function:**

Lamda function is a anonymous function used for short operations or for quick calculation.

Syntax:

lambda arguments: expression

**Recursive function:**

Function calling it self is called as recursive function.

**Syntax:**

def function\_name ():

function\_name()