

Default Parameter Value

```
def my-function (country = "Norway"):  
    print ("I am from " + country)
```

call
my-function ("Sweden")

Output
I am from Sweden

call
my-function ("India")

Output
I am from India

call
my-function()

Output
I am from Norway

Passing a List as an Argument

We can send any data types (of argument to a function (string, number, list, dictionary)).

Eg
1) def my-function(xyz):

```
    for x in xyz:  
        print(x)
```

fruits = ["apple", "banana", "cherry"]

call
my-function (fruits)

Output

apple

banana

cherry

Return Values

Syntax : return [expression - list]

Eg
1) def square-value (num):
 return num**2

call

square-value(5)

Output

2) def my-function(x):

x[0] = 30

next

lst = [9, 11, 13, 14, 15]

my-function(lst)

print(lst)

Function within Functions

def f1():

s = "Priya Singh"

def f2():

print(s)

f2()

f2()

call

f1()

Priya Singh

python lambda

In Python, anonymous function means that a function is without a name. As we already

Syntax:

lambda arguments: expression

eg

g = lambda x: x ** 2

call

print(g(3))

Output

9

② def power(n):
return lambda a: a**n

next
base = power(2)

next
base(6)

output
36

③ type(base)
function.

filter()

We can also replace list comprehension with Lambda by using a map() method, not only it is a fast but efficient too and let's also see how to use lambda in the filter().

e.g

a = [100, 2, 7, 80, 5, 4, 3, 31, 10, 11]

filtered = filter(lambda p: p%2 == 0, a)

print(filtered)

print(list(filtered))

Output

[100, 2, 80, 4]

maped()

In map either we use assignment or conditional operators, the result of the value will.

mapped = map(lambda n: n%2 == 0, a)

print(list(mapped))

[True, True, True, False, True, False, True, False, True, True]
For False, False]

Global and Local Variables

```
s = "I love python"
```

```
def myfunction():  
    print(s)
```

call

```
myfunction()
```

output

I love python..

```
print(s)
```

output

I love python.

```
def myf():
```

```
    global v
```

```
    v = "I like food"
```

```
    print(v)
```

② call
myf()

Output

I like food

```
print(v)
```

I like food.

2)

```
def p():  
    s = "me too" (local)
```

```
    print(s)
```

```
s = "I love python"
```

call

```
p()
```

me too

call
print(s)

I love python.