Functions

In [1]:

```
def greet():
    print("Hello")
    print("Good Morning")

greet()
```

```
Hello
Good Morning
```

In [2]:

```
def sub_add(x,y):
    c=x+y
    d=x-y
    return c,d

result1,result2 = sub_add(5,4)
print(result1, result2)
```

```
9 1
```

In [3]:

```
var = 100
def my_func():
    var = 10
    print("Local Value inside function:",var)
print("Globle Value outside function:",var)
my_func()
```

```
Globle Value outside function: 100
Local Value inside function: 10
```

Q-> Factorial using recursion

In [4]:

```
def calc_factorial(x):
    if x == 1:
        return 1
    else:
        return (x * calc_factorial(x-1))


num = 4
ans = calc_factorial(num)
print("The factorial of", num,"is",ans)
```

```
The factorial of 4 is 24
```

In [5]:

```
# Python default argument
def greet(name, msg="Good morning"):
    print("Hello",name +',' + msg)

greet("Rama")
greet("Rama","How do you do?")
```

```
Hello Rama,Good morning
```

```
Hello Rama,How do you do?
```

In [6]:

```
# Python Keyword argument

# 2 keyword arguments
greet(name = "Sita", msg = "How do you do?")

# 2 keyword arguments (out of order)
greet(msg = "How do you do?",name = "Laxman")

# 1 positional, 1 keyword argument
greet("Rama",msg = "How do you do?")
```

```
Hello Sita,How do you do?
Hello Laxman,How do you do?
Hello Rama,How do you do?
```

In [7]:

```
#Python Arbitary Arguments
def greet(*names):
# names is a tuple with arguments
    for n in names:
        print("Hello",n)

greet("A1","A2","A3","A4")
```

```
Hello A1
Hello A2
Hello A3
Hello A4
```

In [ ]:

```

```