Functions

```` ```def function_name(): ````

    #indentation
    .....`` `

```
In [1]:  def say():
             #
             print('Hello')
```

```
In [2]:  say()
```

```
Hello
```

```
In [3]:  def say_hello(name):
             print('Hello', name)
```

```
In [4]:  say_hello('Srikanth')
```

```
Hello Srikanth
```

```
In [14]:  # write a function that should print hello your name n times
          def say_hello_1(name, n):
              for i in range(n):
                  #say_hello(name)
                  print('Hello',name)
```

```
In [15]:  say_hello_1('Srikanth',5)
```

```
Hello Srikanth
Hello Srikanth
Hello Srikanth
Hello Srikanth
Hello Srikanth
```

```
In [11]:  def say_hello_2(name,n):
              txt = 'Hello {} \n'.format(name)
              print(txt*n)
```

```
In [13]:  say_hello_2('Srikanth',5)
```

```
Hello Srikanth
Hello Srikanth
Hello Srikanth
Hello Srikanth
Hello Srikanth
```

In [22]:
```python
def addition(a,b):
    c = a+b
    return c
```

In [24]:
```python
# create a function for multplication, subtraction , division and paower

def multiplication(a,b):
    """This function will multiply two number a and b and return
    c = a*b
    """
    return a*b

def subtraction(a,b): return a-b


def division(a,b):
    if b == 0:
        return print("Can't divide a number with 0")
    else:
        return a/b

def power(a,b):
    return a**b
```

In [26]:
```python
multiplication(5,5)
```

Out[26]: 25

In [30]:
```python
# write a function to generate random number of selected range and length
def rand_num(a, b,length):
    import random
    rand = []
    if a > b:
        return print('{} > {} please select number a < b'.format(a,b))
    for i in range(length):
        num = random.randint(a,b)
        rand.append(num)
    return rand
```

In [32]:
```python
rand_num(50,30,20)
```

50 > 30 please select number a < b