```
syntax
def name(parameter): #defining the function
    pass
name(argument) #calling the function
```

In [4]:

```
def sample(name):
    print("My name is:",name)
sample("Mike")
```

```
My name is: Mike
```

In [5]:

```
def calc(a,b):
    print("Addition:",a+b)
    print('Multiplication:',a*b)
calc(5,4)
```

```
Addition: 9
Multiplication: 20
```

In [6]:

```
def cube(num):
    return num**3
inp = int(input("Enter a number to Cube: "))
print("The cube of the entered number is:",cube(inp))
```

```
Enter a number to Cube: 5
The cube of the entered number is: 125
```

More on defining the function 1.Required Argument 2.keyword Argument 3.Default Argument

```
# no of parameters must be equal to number of arguments
def calc(a,b):
    print("Addition:",a+b)
    print('Multiplication:',a*b)
calc(5)
```

In [15]:

```
#keyword argument
def display(name,id):
    print('My name is',name)
    print('My Id is ',id)
display(id ="E0222054",name = "Mike")
```

```
My name is Mike
My Id is  E0222054
```

In [17]:

```
#default argument
def display(name,id,sub= "Python"):
    print("Name: ",name)
    print("Id: ",id)
    print("Subject: ",sub)
display("Mike","E0222054","C") #if element entered in the line of calling the function
#if the user gives the value of variable while defining the function then that is print
```

```
Name:  Mike
Id:  E0222054
Subject:  C
```

In [28]:

```
#Remove empty string in a list

lst = ["","Python","Java",""]
print("Original list: ",str(lst))
while("" in lst):
    lst.remove("")
print("Updated list: ",str(lst))
```

```
Original list:  ['', 'Python', 'Java', '']

---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
Input In [28], in <cell line: 5>()
      3 lst = ["","Python","Java",""]
      4 print("Original list: ",(lst))
----> 5 lst.isEmpty()
      6 print("Updated list: ",(upd_lst))

AttributeError: 'list' object has no attribute 'isEmpty'
```

In [23]:

```
#removing value 10 from the given list
lst = [10,20,30,40,10,10,30,10]
print("Original list: ",lst)
while(10 in lst):
    lst.remove(10)
print("Updated list: ",lst)
```

```
Original list:  [10, 20, 30, 40, 10, 10, 30, 10]
Updated list:  [20, 30, 40, 30]
```

In [25]:

```
#inserting values
lst = [10,20,30,40,10,10,30,10]
pos = int(input("Enter the position of the element to be added:"))
val = int(input("Enter the Value to be added: "))
lst.insert(pos,val)
print("Final list After inserting the value",lst)
```

```
Enter the position of the element to be added:2
Enter the Value to be added: 24
Final list After inserting the value [10, 20, 24, 30, 40, 10, 10, 30, 10]
```

In [26]:

```
#updating elements in list
lst = [10,20,30,40,10,10,30,10]
lst[5]= 1000
lst
```

Out[26]:

```
[10, 20, 30, 40, 10, 1000, 30, 10]
```

In [ ]:

```

```