

```
In [1]: # default argument
def add(a=5,b=6):
    print("Program to demonstrate default argument:")
    print("a =",a)
    print("b =",b)
    print("The sum is ", (a+b))

add(4)
```

Program to demonstrate default argument:  
a = 4  
b = 6  
The sum is 10

```
In [2]: # keyword argument

def add(a,b,c):
    print("Program to demonstrate keyword argument:")
    print("a:",a)
    print("b:",b)
    print("The sum is",(a+b+c))

add(5,c=6,b=10)
```

Program to demonstrate keyword argument:  
a: 5  
b: 10  
The sum is 21

```
In [3]: # positional argument
def add(a,b):
    print("a",a)
    print("b",b)
    print("The sum is ", (a+b))

add(4,5)
```

a 4  
b 5  
The sum is 9

```
In [4]: # default,postional & keyword argument
def add(a,b,c=0):
    print("a",a)
    print("b",b)
    print("C",c)
    print("The sum is ", (a+b+c))

add(4,5,c=10)
```

a 4  
b 5  
C 10  
The sum is 19

```
In [5]: # arbitrary positional argument

def arb(*a):
    sum=0
    for i in a:
        sum=sum+i
    print("The sum is ",sum)

arb(1,2,3,4,5,1)
```

The sum is 16

```
In [6]: # arbitrary keyword argument

def arb(**a):

    sum= a["a"]+a["b"]+a["c"]
    print("The sum is",sum)
```

```
arb(a=1,b=3,c=5)
```

The sum is 9

In [ ]: