

## # Default argument (value is assigned while defining a function)

```
In [3]: def add(a=5,b=6):  
        return(a+b)
```

Out[3]: 11

```
In [2]: def prod(p=4,q=5):  
        return(p*q)
```

Out[2]: 20

```
In [4]: def prod(p=5,q=4):  
        print("The product is:",p*q)
```

The product is: 20

## Keyword arguments

```
In [6]: def add(a,b):  
        print("a:",a)  
        print("b:",b)  
        print("The sum is",(a+b))
```

a: 10

b: 5

The sum is 15

```
In [7]: def add(a,b,c):  
        print("The sum is:",(a+b+c))
```

The sum is: 26

## Positional arguments

```
In [18]: def add(a,b):  
        print("a:",a)  
        print("b:",b)  
        print("The sum is:",(a+b))
```

a: 5

b: 4

The sum is: 9

## Arbitrary positional arguments

```
In [13]: def add(*a):  
          sum=0  
          for i in a:  
              sum=sum+i  
          print("The sum is:",sum)  
          return sum
```

The sum is: 70

## Arbitrary keyword arguments

```
In [39]: def fun(**kid):  
          print("His last name is " + kid["lname"])
```

His last name is Refsnes

```
In [46]: def add(**a):  
          print("The sum is:", (a["a"]+a["b"]+a["c"]))
```

The sum is: 6