

Functions in Python

.Why Functions

.Function definition

.Positional and Keyword Arguments in Functions

```
In [2]: num=24

if num%2==0:
    print("The number is even")
else:
    print("The num is odd")
```

The number is even

```
In [4]: def even_odd(num):
        if num%2==0:
            print("The number is even")
        else:
            print("The num is odd")
```

```
In [5]: even_odd(34)
```

The number is even

```
In [6]: even_odd(99)
```

The num is odd

```
In [9]: ## print vs return
def hello_world():
    print('Hello welcome')
```

```
In [11]: val=hello_world()
```

Hello welcome

```
In [12]: print(val)
```

None

```
In [17]: def hello_world():
        return "Hello welcome"
```

```
In [18]: val=hello_world()
```

```
In [19]: print(val)
```

Hello welcome

```
In [20]: def add_number(num1,num2):  
         return num1+num2
```

```
In [21]: val=add_number(24,48)
```

```
In [22]: val
```

Out[22]: 72

```
In [25]: ## postional argument  
         ## keyword argument  
         def hello(name,age=29):          ## postional argument=name, keyword argu=age  
             print("My name is {} and age is {}".format(name,age))
```

```
In [26]: hello('Krish')
```

My name is Krish and age is 29

```
In [27]: def hello(*args,**kwargs):  
         print(args)  
         print(kwargs)
```

```
In [28]: hello('desh','verma',age=32,dob=1990)
```

('desh', 'verma')
{ 'age': 32, 'dob': 1990 }

```
In [31]: lst=['desh','verma']  
         dict_args={'age':32,'dob':1990}
```

```
In [34]: hello(*lst,**dict_args)  ## * is postional arg and ** is keyword arg
```

('desh', 'verma')
{ 'age': 32, 'dob': 1990 }

```
In [56]: lst=[1,2,3,4,5,6,7]
```

```
In [66]: def evenoddsun(lst):  
         even_sum=0  
         odd_sum=0  
         for i in lst:  
             if i%2==0:  
                 even_sum=even_sum+i  
             else:  
                 odd_sum=odd_sum+i  
         return even_sum,odd_sum
```

```
In [67]: evenoddsun(lst)
```

```
Out[67]: (12, 16)
```

```
In [ ]:
```