map fuction ¶

In [23]:
```python
# map() fuction defined

def cube(n):
    return n**3

x=map(cube,[1,2,3,4,5,6,7,8,9,10])
print(x)
print(type(x))
for i in x:
    print(i,end=" ")

print(list(x))    # It can be convert into List
```

```
<map object at 0x000002080426F910>
<class 'map'>
1 8 27 64 125 216 343 512 729 1000 []
```

In [33]:
```python
def Even_odd(n):
    if n%2==0:
        return "Even"
    else:
        return"odd"
y=map(Even_odd,[1,2,3,4,5,6,7,8])
print(list(y))
```

```
['odd', 'Even', 'odd', 'Even', 'odd', 'Even', 'odd', 'Even']
```

In [ ]:
```python
def Even_odd(n):
    if n%2==0:
        return "Even"
    else:
        return"odd"
y=map(Even_odd,[1,2,3,4,5,6,7,8])
print(list(y))
```

Filter function

In [41]:
```python
def Even_odd(n):
    if n%2==0:
        return True
    else:
        return False

y=filter(Even_odd,[1,2,3,4,5,6,7,8])# filter object always Give only True v
print(list(y))

y=map(Even_odd,[1,2,3,4,5,6,7,8])    # filter object always Give only True v
print(list(y))
```

```
[2, 4, 6, 8]
[False, True, False, True, False, True, False, True]
```

reduce fuction

In [50]:
```python
from functools import reduce

def add(a,b):
    return a+b

y=reduce(add,[1,2,3,4,5])
print(y)
```

```
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```