Map(function, iterables)

```
In [1]:
             p=[i for i in range(1000000 (http://www.mobilenumbertracker.com/MobileNum
             s=lambda x:x**2
          3
          4 list(map(s,p))
Out[1]: [0,
          1,
          4,
          9,
          16,
          25,
          36,
         49,
          64,
         81,
         100,
         121,
         144,
         169,
         196,
         225,
          256,
          289,
          324,
```

Filter(function, iterables)

```
In [2]:
           1
              р
Out[2]: [0,
           1,
           2,
           3,
           4,
           5,
           6,
           7,
           8,
           9,
           10,
           11,
           12,
           13,
           14,
           15,
           16,
           17,
           18,
```

```
In [3]:
             d=lambda t: t if t%2==0 else None
          2 list(filter(d,p))
Out[3]: [2,
         4,
          6,
         8,
          10,
         12,
         14,
         16,
         18,
         20,
         22,
         24,
         26,
         28,
         30,
         32,
         34,
          36,
          38,
In [4]:
             def find_vowels_consonants(char):
                 predefineList=['a','e','i','o','u']
          2
          3
                 if char in predefineList:
                     return False #'vowel'
          4
          5
                 else:
                     return True #'consonants'
          6
          7
          8 to=list('Piyush')
             result=filter(find_vowels_consonants,to)
         10 list(result)
Out[4]: ['P', 'y', 's', 'h']
In [ ]:
          1
In [ ]:
          1
In [ ]:
          1
         Reduce(function, iterables)
In [5]:
             o= lambda a,b: a+b
In [6]:
             0(2,4)
```

Out[6]: 6

from functools import reduce

In [7]:

In [8]:	1	reduce(o,p)
Out[8]:	499999500000 (http://www.mobilenumbertracker.com/MobileNumberLocation?number =499999500000&utm_source=http://localhost:8889/notebooks/Map%20reduce%20%26% 20filter.ipynb&utm_medium=referral&utm_campaign=chrome-plugin)	
In []:	1	
In []:	1	