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In [2]: #pgm:1
def mymap(n):
    return n * n
nums = [1, 2, 4, 6]
print("Original List: ",nums)
result = map(mymap, nums)
print("Square the elements of the said list using map():")
print(list(result))
```

Original List: [1, 2, 4, 6]
Square the elements of the said list using map():
[1, 4, 16, 36]

```
In [7]: #pgm:2
def myfilter():
    return number%2==0
number=['x','Y','2','3','Z','b']
upper = list(filter(lambda x: x.isupper(),number))
print('Uppercase characters:', upper)
```

Uppercase characters: ['Y', 'Z']

```
In [17]: #pgm:3
from functools import reduce
re=reduce(lambda x,y:x+y,['a', 'b', 'c', 'd'],'x')
print(re)
```

xabcd

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In [16]: #pgm:4
orders=[['34587','Learning Python,Mark Lutz',4,40.95],['98762','Programming Pytho
m_order=100
total= list(map(lambda x: x if x[1] >= m_order else (x[0], x[1] - 10),
    map(lambda x: (x[0],x[2] * x[3]), orders)))
print(total)
```

[('34587', 163.8), ('98762', 284.0), ('77226', 88.85000000000001), ('88112', 64.97)]