In [44]:
```
def square(num):
    return num**2
my_num=[1,2,3,4,5]
for item in map(square,my_num):
    print(item)
```

```
1
4
9
16
25
```

In [45]:
```
list(map(square,my_num))
```

Out[45]:
```
[1, 4, 9, 16, 25]
```

In [46]:
```
 def splicer(mystring):
        if len(mystring)%2==0:
            return 'Even'
        else:
            return mystring[0]
```

In [47]:
```
names=['uday','dheeraj','muskan','shiva']
list(map(splicer,names))
```

Out[47]:
```
['Even', 'd', 'Even', 's']
```

In [48]:
```
def check_even(num):
    return num%2==0
```

In [49]:
```
mynum=[1,2,3,4,5]
for n in filter(check_even,mynum):
    print(n)
```

```
2
4
```

In [50]:
```
# Lambda exression
def square(num):
    result=num**2
    return result
```

square(3)

In [51]:
```
square(3)
```

Out[51]: 9

In [52]:
```
def square(num):   return num**2
```

In [53]:
```
square(3)
```

Out[53]: 9

In [54]:
```
square=lambda num: num**2
```

In [55]:
```
square(5)
```

Out[55]: 25

In [56]:
```
list(map(lambda num:num**2,mynum))
```

Out[56]: [1, 4, 9, 16, 25]

In [57]:
```
list(filter(lambda num:num%2==0,mynum))
```

Out[57]: [2, 4]

In [59]:
```
list(map(lambda x:x[::-1],names))
```

Out[59]: ['yadu', 'jareehd', 'naksum', 'avihs']

In [ ]:
```

```