In [1]:
```
l = [2,3,4,5,6]
```

In [7]:
```
def test(l):
    l1 = []
    for i in l:
        l1.append(i**3)
    return l1
```

In [8]:
```
test(l)
```

Out[8]:
```
[8, 27, 64, 125, 216]
```

In [9]:
```
def sq(x):
    return x**2
```

In [11]:
```
list(map(sq,l))
```

Out[11]:
```
[4, 9, 16, 25, 36]
```

In [13]:
```
list(map(lambda x:x**2,l))
```

Out[13]:
```
[4, 9, 16, 25, 36]
```

In [14]:
```
l1 = [1,2,3,4,5]
l2 = [6,7,8,9,10]

list(map(lambda x,y:x+y,l1,l2))
```

Out[14]:
```
[7, 9, 11, 13, 15]
```

In [15]:
```
def add(x,y):
    return x+y
```

In [17]:
```
list(map(add,l1,l2))
```

Out[17]:
```
[7, 9, 11, 13, 15]
```

In [19]:
```
s = "pwskills"

list(map(lambda x:x.upper(),s))
```

Out[19]:
```
['P', 'W', 'S', 'K', 'I', 'L', 'L', 'S']
```

In [20]:
```
from functools import reduce
```

In [21]:
```
l = [1,2,3,4,5]
```

In [22]:
```
reduce(lambda x,y:x+y,l)
```

Out[22]:
```
15
```

In [23]:
```
reduce(lambda x,y:x*y, l)
```

Out[23]: 120

In [24]:
```
l
```

Out[24]: [1, 2, 3, 4, 5]

In [25]:
```
reduce(lambda x,y:x if x>y else y , l)
```

Out[25]: 5

In [26]:
```
l
```

Out[26]: [1, 2, 3, 4, 5]

In [28]:
```
list(filter(lambda x:x%2==0,l))
```

Out[28]: [2, 4]

In [29]:
```
list(filter(lambda x:x%2!=0,l))
```

Out[29]: [1, 3, 5]

In [34]:
```
l1 = [-3,4,5,6,-1,-5]
```

In [35]:
```
list(filter(lambda x:x<0,l1))
```

Out[35]: [-3, -1, -5]

In [36]:
```
l2 = ["sudh" , "pwskills","kumar","bangalore","krish"]
```

In [37]:
```
list(filter(lambda x : len(x)>6,l2))
```

Out[37]: ['pwskills', 'bangalore']

In [38]:
```
list(filter(lambda x : len(x)<6,l2))
```

Out[38]: ['sudh', 'kumar', 'krish']

In [ ]:
```

```