Lambda Functions

In [3]:

```
lambda x: x+1
```

Out[3]:

```
<function __main__.<lambda>(x)>
```

In [4]:

```
#Addition
x=lambda x,y:x+y
```

In [5]:

```
x(222,333)
```

Out[5]:

```
555
```

In [6]:

```
# Concatinating two Lists
x=lambda x,y:x+y
```

In [7]:

```
l1=[1,2,3,4,5]
l2=[5,4,3,2,1]
x(l1,l2)
```

Out[7]:

```
[1, 2, 3, 4, 5, 5, 4, 3, 2, 1]
```

Map

In [9]:

```
l=[1,2,3,4,5]
map(lambda x:x+1,l)
```

Out[9]:

```
<map at 0x2844c3c0b50>
```

In [10]:

```
list(map(lambda x:x+1,l))
```

Out[10]:

```
[2, 3, 4, 5, 6]
```

In [11]:

```
l1
```

Out[11]:

```
[1, 2, 3, 4, 5]
```

In [12]:

```
l2
```

Out[12]:

```
[5, 4, 3, 2, 1]
```

In [ ]:

```
# Adding two lists
list(map(lambda x,y:x+y,l1,l2))
```

Reduce

In [20]:

```
from functools import reduce
```

In [21]:

```
l1
```

Out[21]:

```
[1, 2, 3, 4, 5]
```

In [23]:

```
# Find biggest number in list
reduce(lambda x,y:x if x>y else y,l1)
```

Out[23]:

```
5
```

In [24]:

```
# Add Numbers in List
reduce(lambda x,y:x+y,l1)
```

Out[24]:

```
15
```

Filter

In [25]:

```
# Filter odd numbers in list
list(filter(lambda x:x%2!=0,l1))
```

Out[25]:

```
[1, 3, 5]
```

In [26]:

```
# Filter negative numbers in a list
l=[-1,-4,-7,-3,7,-2,7,93,-73,7,2,625,73,-33]
list(filter(lambda x:x<0,l))
```

Out[26]:

```
[-1, -4, -7, -3, -2, -73, -33]
```

In [ ]:

```

```