**Lambda functions/anonymous functions:**

**Lambda function**:

For single line operations we use lambda function.

**Syntax:**

Function\_name=(lambda parameters:operation)

**Eg:**square=(lambda a:a\*\*2)

Square(2)

**Eg2:**

Add\_two\_num=(lambda a,b:a+b)

Add\_two\_num(10,20)

Lambda functions are autoreturned functions.

**Map():**

Map function returns map object.

**Syntax:**

Map(function\_name,list)

**Eg:**

L1=[1,2,3]

L2=list(map(square,l1))

**Eg2:**

L3=list(map(lambda i:i+10,l1))

**Filter():**

Filter can be used to remove unwanted data.

It reuires if else.

**Syntax:**

Filter(function\_name,list)

**Eg:**

L4=list(filter(lambda x:x%2==0,l1))

**Reduce():**

The function reduce(function,sequence) continously applies the function to the sequence.it returns a single value.

**Syntax:**

From functools import reduce

Reduce(function,list)

**Eg:**

List=[12,14,16,18]

From functools import reduce

Reduce(lambda x,y:x+y,list)