

## **Lambda,Map,Filter,Reduce Function**

<https://www.youtube.com/watch?v=AHQo9jhOp1k>  
<https://www.youtube.com/watch?v=1VDOH5EZsOY>  
<https://www.youtube.com/watch?v=25ovCm9jKfA>  
<https://www.youtube.com/watch?v=hUes6y2b--0>

## **Lambda Function**

Lambda function are nothing but this are the function which are define without the name thats vy it is also called anonymous function.

Syntax :-

**var = lambda argument\_list : expression**

Note :- Lambda function contain more then one argument but is has only one expression

The lambds function return the function object and store in variable

This function can be used when we need a function for short period of time and it can be used it's argument at the hire ordered functions

Hire Ordered function are nothing which are function which will used another function as arguments

## **Map Function**

map() function is the built in function

This function is used to apply the function to all the element of the sequence

Syntax :-

**map(function,sequence)**

in sequence means we can use list,tuple or string as seq.

## **Filter Function**

the filter() function will filter the elements of the iterables based on some function

the filter() function is used to filter the unwanted elements

Syntax :-

**filter(function,iterables)**

this filter function returns the elements of the ierables for which the function will become true.

# Exception In Python

when the exception is occure,it causes the current process to stop and passes it to the calling process until it is handled if not handled,our program will crash.

In python, exception can be handled using try statement.

A critical operation which can raise exception inside the try block and the code that handled exception is written n except clause.

Syntax :-

try:

```
# do something
```

```
pass
```

```
except ValueError:
```

```
# handle ValueError exception
```

```
pass
```

```
except (TypeError, ZeroDivisionError):
```

```
# handle multiple exceptions
```

```
# TypeError and ZeroDivisionError
```

```
pass
```

```
except:
```

```
# handle all other exceptions
```

```
pass
```

```
finally:
```

```
# Execute evety time if exception is generate or not
```