filter

The filter is useful for taking **data and removing** any information that you don't need The filter function **returns a sequence** from those **elements for which returns True**

Syntax: filter(function, iterable)

```
#Even and Odd number using lambda function
number = lambda x : True if x % 2 == 0 else False # lambda arguments : expression
even = number(4) #which are divisible by 2
print(even) # True
odd = number(5) #which are not divisible by 2
print(odd) # False
```

```
#Even Numbers, using lambda function and filter() with function def d1(x):
    return x % 2 == 0

lst = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, 1, 2, 3]
    result = filter(lambda x: x % 2 == 0, lst)
    print(list(result)) # [0, 2, 4, 6, 8, 0, 2]
```