Python has a lot of shortcuts to make lot of complex scenarios simple, one of them is list comprehensions

***List Comprehensions:***

List comprehensions is a python concept that used to construct the list.

For example, if we need to construct the list of squares then we can write something like below,

list\_var = [x\*\*2 for x in range(10)]

print list\_var

Output,

[0, 1, 4, 9, 16, 25, 36, 49, 64, 81]

Let’s see little more complex scenario which involves for loop and if condition,

In this one, input will be list. Using for loop and if condition, we will filter only numbers which divisible by 2

input\_list = [0, 1, 4, 9, 16, 25, 36, 49, 64, 81]

list\_var = [x for x in input\_list if x % 2 == 0]

print list\_var

and output will be,

[0, 4, 16, 36, 64]