

## List Comprehension - Remove All Occurences of an Element From a List

The `remove()` method removes only the first occurrence of an item from the list

The `del` operator removes a particular element specified by the index, or a portion of a list specified by the slicing interval

In this notebook, we show how to remove all occurrences of an element from a list using List Comprehension

The syntax is: `[expression for item in list if conditional ]`

In [1]:

```
'''
Remove all occurrences of 1, 2 from list
'''
my_list = [1,2,3,4,1,2,1]

unwanted_num = [1,2]
my_list = [ele for ele in my_list if ele not in unwanted_num]
print(my_list)
```

[3, 4]

In [1]:

```
'''
Remove all occurrences of 1, 2 from list
Same as above but accomplishes the task using a defined function
'''
def remove_values_from_list(the_list, val):
    return [value for value in the_list if value != val]

my_list = [1,2,3,4,1,2,1]
print(my_list)
my_list = remove_values_from_list(my_list, 1)
print(my_list)
my_list = remove_values_from_list(my_list, 2)
print(my_list)
```

[1, 2, 3, 4, 1, 2, 1]  
[2, 3, 4, 2]  
[3, 4]