- List Comprehension >>

         List comprehension is a method to create a list in python.
   It is allow to define a list based expression to connect them and an iterable also in readable form.

Example :

```
n = range(1, 11)
square = [x**2 for x in numbers]
print(squares)
Output: [1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
```

Assignment:- 6

❖ *List append and extend difference:-*
❖ Addend :-
- Adds Single element
- `list_name.append(element) it` Syntax .
- Less efficient for adding multiple elements
❖ Extend:-
- Multiple elements from an iterable
- It syntax is `list_name.extend(iterable)`
- EfficiencyMore efficient for adding multiple elements

➢ Methods of list:-
➢ **count():** Returns the number of times a specific element occurs in the list.
   my_list = [1, 2, 3, 2]
   count_of_two = my_list.count(2)
   print(count_of_two) **Output: 2**
➢ **index():** Returns the index of the first occurs of a specific element.
  my_list = [1, 2, 3, 2]
  index_of_two = my_list.index(2)
  print(index_of_two) **Output: 1**

➢ **remove():** Removes the first element of a specific element.
  my_list = [1, 2, 3, 2]
  my_list.remove(2)
  print(my_list) *Output: [1, 3, 2]*