**Dictionary Comprehension**

Dictionary comprehension is an elegant and concise way to create dictionaries from a existing list or dictionary. It is similar to list comprehension but it deal with key value pair.

Let’s create a dictionary from a list without using dictionary comprehension so that we can understand drawback regular method.

Example:

# Create dictionary of Sqaure using loop

square\_dict = dict()

for num in range(1, 11):

square\_dict[num] = num\*num

print(square\_dict)

print(num)

**Output:**

{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}

10

Note: Even loop is ended, variable **num** is still exist, it means, it still hold unnecessary memory.

Now Create same dictionary using Dictionary comprehension.