

Day_6_Comprehension(DATA_MINDS)

September 7, 2023

1 COMPREHENSION

```
[1]: l=[1,2,5,3,4,6,8,7,9]
```

```
[2]: l
```

```
[2]: [1, 2, 5, 3, 4, 6, 8, 7, 9]
```

```
[3]: type(l)
```

```
[3]: list
```

#THIS IS HOW WE SWUARE THE NO THROUGH FOR LOOP

```
[8]: l=[1,2,5,3,4,6,8,7,9]
k=[]
for i in l:
    k.append(i**2)
```

```
[10]: k
```

```
[10]: [1, 4, 25, 9, 16, 36, 64, 49, 81]
```

```
[11]: l
```

```
[11]: [1, 2, 5, 3, 4, 6, 8, 7, 9]
```

#THIS IS HOW WE DONE SAME THING IN ONE LINE OF CODE

```
[14]: [i**2 for i in l]
```

```
[14]: [1, 4, 25, 9, 16, 36, 64, 49, 81]
```

#WE FETCH EVEN VALUES LIKE THIS

```
[17]: [i for i in l if i%2==0]
```

```
[17]: [2, 4, 6, 8]
```

```
[18]: k=["virat","Datascience","Yash","Rohit"]
```

```
[19]: [i.upper() for i in k]
```

```
[19]: ['VIRAT', 'DATASCIENCE', 'YASH', 'ROHIT']
```

```
[20]: 1
```

```
[20]: [1, 2, 5, 3, 4, 6, 8, 7, 9]
```

```
[22]: list(i**2 for i in 1)
```

```
[22]: [1, 4, 25, 9, 16, 36, 64, 49, 81]
```

```
[23]: d={"key":1,"key2":2,"key3":3,"key4":4}
```

```
[24]: d
```

```
[24]: {'key': 1, 'key2': 2, 'key3': 3, 'key4': 4}
```

```
[29]: {k:v**2 for k,v in d.items()}
```

```
[29]: {'key': 1, 'key2': 4, 'key3': 9, 'key4': 16}
```