

Day-17

29/09/2025

- Slicing - in a list means extracting a portion (sublist) of elements from the original list using index range

Syntax:

Var [start position : stop position : step size]

- $l_1 = [1, 2, 3, 4, 5, 6]$

$l_1[0:5]$

- $[1, 2, 3, 4, 5, 6]$

$l_1[:5]$

- $[1, 2, 3, 4, 5, 6]$

$l_1[1::2]$ # 1-start value, 2: distance value

- $[2, 4, 6]$

$l_1[-3:]$

- $[5, 6, 1]$

$l_1[: -3]$

- $[1, 2, 3, 4]$

- $l_1 = ['b', 1, 2, [5, 6, 7], 8, [[1, 2, 3]]]$

$l_1[2]$

- 2

- $l_1[3][1]$

- 6

$l_1[5][0][0][2]$

3

- list1 = ['MYSQ L']

for i in list1:

print(i)

for j in enumerate(i):

print(f"pos={j[0]}, val={j[1]}")

o MYSQL

pos=0 val=M

pos=1 val=Y

pos=2 val=S

pos=3 val=Q

pos=4 val=L

- list2 = [3, 8, 1, 4, 2]

max(list2)

o 8

list2.sort()

o 1, 2, 3, 4, 8

list2.sort(reverse=True)

8, 4, 3, 2, 1

→ l1 = [1, 2, 3, 4, 5]

l2 = [4, 5, 6, 7, 8]

inter = []

for i in l1:

if i in l2:

inter.append(i)

o/p

[4, 5]

uni = []

for i in l1:

if i not in uni:

uni.append(i)

for i in l2:

if i not in uni:

uni.append(i)

print(uni)

o [1, 2, 3, 4, 5, 6, 7, 8]