

29-9-2025 Monday

start value < stop value

Slicing :

↓ [start position : stop position : step size]

- \* default start position is 0
- \* default stop position is end
- \* default step size is 1.

l = ['a', 2, 'c', 9.5, 'berant', True, 'Tech', 34, 99.9]

⇒ To print elements from 'a' to True

l[0:6]      o/p ['a', 2, 'c', 9.5, 'berant', True]

⇒ To print odd position elements

l[1::2]      o/p [2, 9.5, True, 34]

⇒ To print all elements

l[:]

⇒ To print last 3 elements

l[-3:]

⇒ Print elements of list whose position is divisible by 3

l[3::3]      o/p [9.5, 'Tech']

⇒ Write a program to find the max elem from list without using max fn.

l = [4, 6, 1, 9, 2]

max-num = l[0]

for i in l:

if (i > max-num):  
    max-num = i

print(max-num)

⇒ To sort in ascending / descending order.

\* In ascending

~~l4.sort()~~      l4.sort()  
                    l4

In descending

l4.sort(reverse=True)  
l4

⇒ Remove all the duplicates from list

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

new-l = []

```
for i in l:
```

```
    if i not in new_l:
```

```
        new_l.append(i)
```

```
print(new_l)
```

```
o/p [1, 2, 3, 4, 5, 6, 7, 8, 9]
```

⇒ Remove all occurrence of item 20

```
l = [5, 20, 15, 20, 25, 50, 20]
```

```
for i in l:
```

```
    if (i == 20):
```

```
        l.remove(20)
```

```
o/p [5, 15, 25, 50]
```

```
print(l)
```

⇒ Perform Union and Intersection on 2 given list

```
l1 = [1, 2, 3, 4, 5]
```

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

```
Inter = []
```

```
for i in l1:
```

```
    if i in l2:
```

```
        Inter.append(i)
```

```
print("Intersection:", Inter)
```

```
uni = []
```

```
for i in l1 + l2:
```

```
    if i not in uni:
```

```
        uni.append(i)
```

```
print("Union:", uni)
```

```
o/p Union: [1, 2, 3, 4, 5, 6, 7, 8, ]
```

```
Intersection: [4, 5]
```

⇒ Remove empty string from the list of string

```
list = ["Arjun", "", "Kamala", "", "John"]
```

```
new_list = []
```

```
for i in list:
```

```
    if (i != ""):
```

```
        new_list.append(i)
```

```
print(new_list)
```

```
o/p ['Arjun', 'Kamala', 'John']
```

```
list = [
]
for i in list:
    if (i == ""):
        list.remove(i)
print(list)
```

⇒ 2. Tuple: It is represented by tuple () @ ()

- It is ordered, immutable, allow duplicates.
- It is also heterogeneous in nature

Ex     t = (28, 'Priya', 78.9, False, 'Karan')

t

o/p (—————)