#### 24th June Task Practise

```
In [2]: txt = " abc def ghi "
  txt.lstrip() #leftstrip

Out[2]: 'abc def ghi '

In [3]: txt = " abc def ghi "
  txt.strip()
Out[3]: 'abc def ghi'
```

### using escape char

```
In [4]: mystr = "My favourite web series is "Stranger Things""

Cell In[4], line 1
    mystr = "My favourite web series is "Stranger Things""

SyntaxError: invalid syntax

In [6]: mystr = "My favourite web series is \"Stranger Things\""
    print(mystr)
```

My favourite web series is "Stranger Things"

#### list

```
In [14]: list4[0]
Out[14]: 'one'
In [15]: list4[0][0]
Out[15]: 'o'
In [16]: list4[-1]
Out[16]: 'three'
In [17]: list6[-1]
Out[17]: 17.765
```

# list slicing

```
In [18]: mylist = ['one' , 'two' , 'three' , 'four' , 'five' , 'six' , 'seven' , 'eight']
In [19]: mylist [0:3]
Out[19]: ['one', 'two', 'three']
In [20]: mylist [2:5]
Out[20]: ['three', 'four', 'five']
In [21]: mylist[3:4]
Out[21]: ['four']
In [22]: mylist[-3]
Out[22]: 'six'
In [23]: mylist[-5]
Out[23]: 'four'
In [24]: mylist[-2:]
Out[24]: ['seven', 'eight']
In [25]: mylist[:-2]
Out[25]: ['one', 'two', 'three', 'four', 'five', 'six']
In [26]: mylist[:]
Out[26]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight']
```

### add, remove & change items

```
In [28]: mylist
Out[28]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight']
In [29]: mylist.append('nine')
         mylist
Out[29]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine']
In [30]: mylist.insert(9,'ten')
         mylist
Out[30]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine', 'ten']
In [32]: mylist.insert(1,'ONE')
         mylist
Out[32]: ['one',
           'ONE',
           'two',
           'three',
           'four',
           'five',
           'six',
           'seven',
           'eight',
           'nine',
           'ten']
In [33]: mylist.remove('ONE')
         mylist
Out[33]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine', 'ten']
In [34]: mylist.pop()
Out[34]: 'ten'
In [35]: mylist
Out[35]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine']
In [36]: mylist.pop(8) #remove item at 8 index Loc
         mylist
Out[36]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight']
In [40]: del mylist[6] #del item at 7 index loc
         mylist
Out[40]: [1, 2, 4, 'four', 'five', 'six']
```

```
In [41]: mylist[0] = 1
    mylist[1] = 2 #change value of the string
    mylist[2] = 4
    mylist

Out[41]: [1, 2, 4, 'four', 'five', 'six']

In [42]: mylist.clear()
    mylist

Out[42]: []

In [43]: del mylist

In [44]: mylist

NameError
Cell In[44], line 1
----> 1 mylist

NameError: name 'mylist' is not defined

NameError: name 'mylist' is not defined
```

#### **Copy list**

```
Out[57]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight', 'nine']
```

#### Join List

```
In [58]: list1 = [ 'one', 'two', 'three']
list2 = [ 'four', 'five', 'six' ]

In [59]: list3 = list1 + list2
list3

Out[59]: ['one', 'two', 'three', 'four', 'five', 'six']

In [67]: list1.clear()
list1

Out[67]: []

In [68]: list1 = [ 'one', 'two', 'three']
list1

Out[68]: ['one', 'two', 'three']

In [69]: list1.extend(list2)
list1

Out[69]: ['one', 'two', 'three', 'four', 'five', 'six']
```

### list membership

```
In [75]: if 'eleven' in list1:
    print('eleven is in the list')
else:
    print('eleven is not in the list')
```

eleven is not in the list

#### **Reverse & Sort List**

```
In [76]: list1
Out[76]: ['one', 'two', 'three', 'four', 'five', 'six']
In [77]: list1.reverse()
         list1
Out[77]: ['six', 'five', 'four', 'three', 'two', 'one']
In [78]: list1 = list1[::-1]
         list1
Out[78]: ['one', 'two', 'three', 'four', 'five', 'six']
In [79]: mylist3= [9,5,2,99,12,88,34]
         mylist3.sort() # Sort list in ascending order
         mylist3
Out[79]: [2, 5, 9, 12, 34, 88, 99]
In [80]: mylist3 = [9,5,2,99,12,88,34]
         mylist3.sort(reverse=True) # Sort List in descending order
         mylist3
Out[80]: [99, 88, 34, 12, 9, 5, 2]
In [81]: mylist4 = [88,65,33,21,11,98]
         sorted(mylist4) # Returns a new sorted list and doesn't change original list
Out[81]: [11, 21, 33, 65, 88, 98]
In [83]: mylist4 #the original list remain unchanged when we use sorted() func
Out[83]: [88, 65, 33, 21, 11, 98]
```

## loop through the list

```
one
    two
    three
four
five
six

In [86]: for i in enumerate(list1):
    print(i)

    (0, 'one')
    (1, 'two')
    (2, 'three')
    (3, 'four')
    (4, 'five')
    (5, 'six')
```

#### Count

```
In [87]: list10 =['one', 'two', 'three', 'four', 'one', 'one', 'two', 'three']
In [88]: list10.count('one')
Out[88]: 3
In [89]: list10.count('two')
Out[89]: 2
In [90]: list10.count('three')
Out[90]: 2
In [91]: list10.count('four')
```

## All / Any

```
In [92]: #The all() method returns:
    #True - If all elements in a list are true
    #False - If any element in a list is false
    #The any() function returns True if any element in the list is True. If not, any
In [93]: L1 = [1,2,3,4,0]
In [94]: all(L1) #returns false if an element present is 0
Out[94]: False
In [96]: any(L1) # Will Return True as we have items in the list with True value
```

```
Out[96]: True
In [97]: L2 = [1,2,3,4,True,False]
In [99]: all(L2) #as there is false word in the list...it returns false
Out[99]: False
In [100... any(L2)
Out[100... True
In [101... L3=[1,2,3,True]
In [102... all(L3)
Out[102... True
```

# task completed