list about:sredoc

```
In [1]: list1=[1,2,3,4,5]
 In [2]: list1
 Out[2]: [1, 2, 3, 4, 5]
 In [3]: print(type(list1))
        <class 'list'>
 In [4]: list1[0]
 Out[4]: 1
 In [5]: list1[1]
 Out[5]: 2
 In [6]: list1[-3]
 Out[6]: 3
 In [7]: list1[-6]
        IndexError
                                                 Traceback (most recent call last)
        Cell In[7], line 1
        ----> 1 list1[-6]
        IndexError: list index out of range
 In [8]: len(list1)
 Out[8]: 5
         slicing
In [26]: List2 = [123,1234,342,4532,543,'one','two','three']
In [10]: List2[0:2]
Out[10]: [123, 1234]
In [11]: List2[1:4]
Out[11]: [1234, 342, 4532]
In [12]: List2[:4]
Out[12]: [123, 1234, 342, 4532]
```

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```
In [13]: List2[3:]
Out[13]: [4532, 543, 'one', 'two', 'three']
In [14]: List2[1:]
Out[14]: [1234, 342, 4532, 543, 'one', 'two', 'three']
In [15]: List2[:-4]
Out[15]: [123, 1234, 342, 4532]
In [16]: List2[-4:]
Out[16]: [543, 'one', 'two', 'three']
In [17]: List2[:]
Out[17]: [123, 1234, 342, 4532, 543, 'one', 'two', 'three']
```

## Add , Remove & Change Item

```
In [19]: List2
Out[19]: [123, 1234, 342, 4532, 543, 'one', 'two', 'three']
In [35]: List2.append("four")
List2
Out[35]: [123, 1234, 342, 'Rohit', 'Rohit', 4532, 543, 'one', 'two', 'three', 'four']
In [32]: List2.insert(3,'Rohit')
In [36]: List2
Out[36]: [123, 1234, 342, 'Rohit', 'Rohit', 4532, 543, 'one', 'two', 'three', 'four']
In [37]: List2.remove("four")
In [38]: List2
Out[38]: [123, 1234, 342, 'Rohit', 'Rohit', 4532, 543, 'one', 'two', 'three']
In [39]: List2.pop() # remove the last element
Out[39]: 'three'
In [40]: List2
Out[40]: [123, 1234, 342, 'Rohit', 'Rohit', 4532, 543, 'one', 'two']
```

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list about:srcdoc

```
In [41]: List2.pop(4) # remove the index number 4
Out[41]: 'Rohit'
In [42]: List2
Out[42]: [123, 1234, 342, 'Rohit', 4532, 543, 'one', 'two']
In [44]: del List2[4] # remove the index number 4
In [45]: List2
Out[45]: [123, 1234, 342, 'Rohit', 543, 'one', 'two']
In []: List[4] = 13253
```

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