```
In [1]: #   -7 ,-6 ,-5 ,-4 , -3, -2, -1     -ve indexing
        ls=['a','b','c','d','e','f','g']
        #    0 , 1 , 2 , 3 , 4 , 5 , 6      +ve indexing
```

```
In [2]: print(ls[:5]) #extract the values from the index 0 to 4
```
```
['a', 'b', 'c', 'd', 'e']
```

```
In [3]: print(ls[:]) #start =0 ,stop =7 extract the entire list
```
```
['a', 'b', 'c', 'd', 'e', 'f', 'g']
```

```
In [4]: #   -7 ,-6 ,-5 ,-4 , -3, -2, -1     -ve indexing
        ls=['a','b','c','d','e','f','g']
        #    0 , 1 , 2 , 3 , 4 , 5 , 6      +ve indexing
```

```
In [5]: print(ls[3:6]) # extracts the values at index  3 to 5
```
```
['d', 'e', 'f']
```

```
In [6]: print(ls[-7:-2]) # extracts the value from index -7 to -3(L to R)
```
```
['a', 'b', 'c', 'd', 'e']
```

```
In [7]: #   -7 ,-6 ,-5 ,-4 , -3, -2, -1     -ve indexing
        ls=['a','b','c','d','e','f','g']
        #    0 , 1 , 2 , 3 , 4 , 5 , 6      +ve indexing
```

```
In [8]: print(ls[1:-2])
```
```
['b', 'c', 'd', 'e']
```

```
In [9]: print(ls[2:-1:2])
```
```
['c', 'e']
```

```
In [10]: print(ls[-2:-6:-1])
```
```
['f', 'e', 'd', 'c']
```

```
In [11]: #   -7 ,-6 ,-5 ,-4 , -3, -2, -1     -ve indexing
         ls=['a','b','c','d','e','f','g']
         #    0 , 1 , 2 , 3 , 4 , 5 , 6      +ve indexing
```

```
In [12]: print(ls[2::2])
```
```
['c', 'e', 'g']
```

```
In [13]: print(ls[-3:6:-1])

         []

In [14]: print(ls[::-1])

         ['g', 'f', 'e', 'd', 'c', 'b', 'a']

In [15]: print(ls[1:])

         ['b', 'c', 'd', 'e', 'f', 'g']

In [16]: ls[1:3]=['p','q']
         print(ls)

         ['a', 'p', 'q', 'd', 'e', 'f', 'g']

In [17]: del ls[2:4]

In [18]: print(ls)

         ['a', 'p', 'e', 'f', 'g']

In [19]: del ls[0]
         print(ls)

         ['p', 'e', 'f', 'g']

In [20]: ls[:]=['v','s','e','m']
         print(ls)

         ['v', 's', 'e', 'm']

In [21]: print(ls[:6])

         ['v', 's', 'e', 'm']

In [22]: print(ls[4:6])

         []

In [ ]:
```