```
In [1]: ls=[2,7,4,2,7,8,5]  #Creating a List
        ls.index(2) #Index of a particular element in a list # Answer is 0
        ls.index(10)   #Answer is ValueError
        ls.index(7,2,5) #7 is element, 2 and 5 denotes the range, search in the
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call la
<ipython-input-1-c64ecd035280> in <module>
      1 ls=[2,7,4,2,7,8,5]  #Creating a List
      2 ls.index(2) #Index of a particular element in a list # Answer is
----> 3 ls.index(10)   #Answer is ValueError
      4 ls.index(7,2,5) #7 is element, 2 and 5 denotes the range, search
list from index 2 to 4

ValueError: 10 is not in list
```

```
In [2]: ls.index(2)
```

Out[2]: 0

```
In [3]: ls.index(7,2,5)
```

Out[3]: 4

```
In [4]: ls.index(7,2,4)
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call la
<ipython-input-4-63326d6aa562> in <module>
----> 1 ls.index(7,2,4)

ValueError: 7 is not in list
```

```
In [5]: ls=[2,3,10,1,-9,-2]
        ls.sort()
        print(ls)
```

[-9, -2, 1, 2, 3, 10]

```
In [6]: ls=[2,3,"hello",34.0]
        ls.sort()
```

```
---------------------------------------------------------------------
TypeError                                   Traceback (most recent call la
<ipython-input-6-62872549b00e> in <module>
      1 ls=[2,3,"hello",34.0]
----> 2 ls.sort()

TypeError: '<' not supported between instances of 'str' and 'int'
```

```
In [7]: ls=[2,3,10,1,-9,-2]
        ls.sort(reverse=True)
```

```
In [8]: print(ls)
```

```
[10, 3, 2, 1, -2, -9]
```

```
In [9]: ls=['a','z','A','B']
        ls.sort() #ASCIIbetical Order
        print(ls)
```

```
['A', 'B', 'a', 'z']
```

```
In [10]: ls.sort(key=str.lower) #alphabetical order
```

```
In [11]: print(ls)
```

```
['A', 'a', 'B', 'z']
```

```
In [12]: ls=[2,3,4,5,6,7,2,6,2]
         ls.count(2)
```

```
Out[12]: 3
```

```
In [13]: ls.count(53)
```

```
Out[13]: 0
```

```
In [14]: ls=[2,3,4,8,-2,10]
         x=ls.pop()
```

```
In [15]: print(ls)
         print(x)
```

```
[2, 3, 4, 8, -2]
10
```

```
In [16]: x=pop(3)
         print(ls)
         print(x)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call la
<ipython-input-16-c792f1fcb159> in <module>
----> 1 x=pop(3)
      2 print(ls)
      3 print(x)

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

```
In [17]: x=ls.pop(3)
         print(ls)
         print(x)
```

```
[2, 3, 4, -2]
8
```

```
In [18]: x=ls.pop(4)
```

```
---------------------------------------------------------------------------
IndexError                                Traceback (most recent call la
<ipython-input-18-ca96ac0c134f> in <module>
----> 1 x=ls.pop(4)

IndexError: pop index out of range
```

```
In [21]: ls=[2,3,4,6,12,-1,34]
         len(ls)    # length = 7
         max(ls)    # max=34
         min(ls)    # min=-1
         sum(ls)    #sum= 60
```

Out[21]: 60

```
In [22]: len(ls)
```

Out[22]: 7

```
In [23]: max(ls)
```

Out[23]: 34

```
In [24]: min(ls)
```

Out[24]: -1

In [ ]: