

```
In [1]: # Data Preparation
ls=['Name','Roll','Address','Sub','Interest']
print(ls)
print(type(ls))

['Name', 'Roll', 'Address', 'Sub', 'Interest']
<class 'list'>
```

```
In [2]: ls=['Name','Roll','Address','Sub','Interest']
insert=['Deepak','1200','Patna','Science','Data scientist']
print(ls)
print(insert)

['Name', 'Roll', 'Address', 'Sub', 'Interest']
['Deepak', '1200', 'Patna', 'Science', 'Data scientist']
```

```
In [3]: ls=['Name','Roll','Address','Sub','Interest']
print(ls[0],ls[-3],ls[-5])
print(ls[0],ls[1],ls[2])

Name Address Name
Name Roll Address
```

```
In [4]: ls=['Name','Roll','Address','Sub','Interest']
ls[4]='Interest'
print(ls)

['Name', 'Roll', 'Address', 'Sub', 'Interest']
```

```
In [5]: ls=['Name','Roll','Address','Sub','Interest']
ls[4]="Python"
print(ls)

['Name', 'Roll', 'Address', 'Sub', 'Python']
```

```
In [6]: ls=['Name','Roll','Address','Sub','Interest']
ls.append(1000)
print(ls)

['Name', 'Roll', 'Address', 'Sub', 'Interest', 1000]
```

```
In [7]: ls=['Name','Roll','Address','Sub','Interest']
ls.append("Hobby")
print(ls)

['Name', 'Roll', 'Address', 'Sub', 'Interest', 'Hobby']
```

```
In [8]: ls=['Name','Roll','Address','Sub','Interest']
ls.append("Hobby")
ls.append("Age")
print(ls)

['Name', 'Roll', 'Address', 'Sub', 'Interest', 'Hobby', 'Age']
```

```
In [9]: ls=[]
ls.append("Name")
ls.append("Roll")
ls.append("Age")
ls.append("Hobby")
ls.append("Address")
ls.append("Sub")
print(ls)

['Name', 'Roll', 'Age', 'Hobby', 'Address', 'Sub']
```

```
In [10]: ls=['Name','Roll','Address','Sub','Interest']
ls.insert(0,"Hobby")
ls.insert(2,"Python")
print(ls)

['Hobby', 'Name', 'Python', 'Roll', 'Address', 'Sub', 'Interest']
```

```
In [11]: ls=['Name','Roll','Address','Sub','Interest']
del(ls[0])
del(ls[1])
print(ls)

['Roll', 'Sub', 'Interest']
```

```
In [12]: ls=['Name','Roll','Address','Sub','Interest']
print(ls[1:3])
print(ls[0])
print(ls[0:4])
print(ls[-3:-5])
print(ls[:5])
print(ls)
print(ls[:])
```

```
In [13]: ls=[1,2,3,4,5,6,7,8,9,4,1,2,21,54,65,9,87,56,9,5,98,50]
for i in ls:
    print(i)
```

```
print(len(ls))
```

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```
In [23]: ls=[1,2,3,4,5,6,7,8,9,4,1,2,21,54,65,9,87,56,9,5,98,50]
         for i in range(len(ls)):
             print(i)
```

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21

```
In [29]: ls=[1,2,3,4,5,6,7,8,9,4,1,2,21,54,65,9,87,56,9,5,98,50]
         print(max(ls))
         print(min(ls))
```

98
1

```
In [22]: ls=[1,2,3,4,5,6,7,8,9,4,1,2,21,54,65,9,87,56,9,5,98,50]
         maximum=-1
         for i in ls:
             if maximum < i:
                 maximum = i
             print(maximum)
```

1
2
3
4
5
6
7
8
9
9
9
9
21
54
65
65
87
87
87
87
98
98

```
In [31]: ls=[1,2,3,4,5,6,7,8,9,4,1,2,21,54,65,9,87,56,9,5,98,50]
         print(len(ls))
```

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```
In [35]: ls=[1,2,3,4,5,6,7,8,9,4,1,2,21,54,65,9,87,56,9,5,98,50]
         print("The original list 1 is : " + str(ls))
```

The original list 1 is : [1, 2, 3, 4, 5, 6, 7, 8, 9, 4, 1, 2, 21, 54, 65, 9, 87, 56, 9, 5, 98, 50]

```
In [ ]: -
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