

```
1 num=[1,2,3,4,5,6,70,8]
2 names=['abhi','lohi']
3 mixed=[1,'abhi',2.5,True]
4 print(num)
5 print(num[2])
6 print(num[-1])
7 print(len(num))
8 print(num[1:3])#index slicing used to print from
   required index to end labelled
9 print(num[0:4])
10 print(num[0:5:2])#extended slicing used to print
   elements to required one leaving the no of steps
   required
11 num.sort()#we cannot apply sort to mixed lists
12 print(num)
13 print(max(num))
14 print(min(num))
15 #we can append the list in 3 diff ways
16 num.append(45)#adds element to end of list
17 print(num)
18 num.insert(2,46)#add element at specified index
19 print(num)
20 num.extend([45,46,47,78])#used to extend the list by
   adding a list at end of list
21 print(num)
22 #lists are mutuable i.e they are changeable
23 num[2]=80
24 print(num)
25 num[1:5]=[11,22,33,44,55]
26 print(num)
27 #remove() used to remove the specified elt in the
   list if there are duplicates it removes the first elt
   in the list
28 num.remove(11)
29 print(num)
30 #used to remove the element at specified index
31 num.pop(2)
32 print(num)
33 num.reverse()
34 print(num)
35 list=[10,20,30,[10,20,30],17,0]#nested list
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36 l=len(list)
37 print(l)
38 print(list[3])
39 print(type(list))
40 print(list[3][1:3])
41
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