Purpose	Syntax	Examples
Access to an	list[index]	>>>L= ["abc", 12345, True]
element of the		>>> L[2]
list. Negative		True
indices can be		>>> L[1:]
used to index		[12345, True]
the list from the		>>> L[6]
end.		Traceback (most recent
When a wrong		last):File" <stdin>", line 1, in ?</stdin>
index is used,		IndexError: list index out of range
python returns		>>> L[-1]
an error.		True
		>>> L [-2]
		12345
Assign a value	list[index]=value	>>>L= ["abc", 12345, True]
to an element of		>>>L[2] = 1
the list. The		>>> L
contents of a list		["abc", 12345, 1]
can be changed		
by simple		
assignment using the target index.		
Sum all the	sum(I)	>>> print(sum([1, 2, 3]))
element of a list		>>> 6
		>>> print(sum(["aa", "bb", "cc"]))
		"aabbcc"

Minimum of a	min(l)	>>>print(min([1,-2,4,3]))
list		-2

Maximum of a	max(l)	>>>print(max([1,-2,4,3]))
list		4
Length : number	len(list)	>>>L=[4,67,5]
of elements in		>>>print(len(l))
the list		3
Slicing:	list[i :j:k]	>>> x[0:-1]
Negative indices	list[i:j] list[i:]	[1, 2, 3]
can be used in	list[:j] list[:]	>>> x = range(10)
slicing		>>> X
An optional third		[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
index can be used to specify		>>> x[0:6:2]
the increment,		[0, 2, 4]
which by default		
is 1.		
Repetition:	list*num	>>>I = ["#", 2, 0.6] *3
duplicate a list a		>>>["#", 2, 0.6, "#", 2, 0.6, "#", 2, 0.6]
given number of times.		>>> m= [[1, 2, 3]] * 3
		[[1, 2, 3], [1, 2, 3], [1, 2, 3]]
		>>> m[1][1] = 4
		[[1, 4, 3], [1, 4, 3], [1, 4, 3]]
A for statement	for <x> in <list></list></x>	>>> for e in [5,6,8]:
executes the specified block		print(e,"***")
of code for every		5***6***10***
element in a list.		>>>for x in [1, 2, 3, 4]: print x*2
		2,4,6,8

Create a list	str.split(",")	>>>c1="the kids are playing"
from a string using a delimiter		>>>print(c1.split())
if no delimiter		>>> ["the,"kids","are","playing"]
use space		>>>c2="the kids, are playing,outside"
		>>>print(c2.split(','))
		["the kids", "are playing", "outside"]

List	l1+l2	>>> pop = [0, 1] + [1, 0]
concatenation		>>> pop
		[0, 1, 1, 0]
		>>> pop += [2, 3]
		>>> pop
		[0, 1, 1, 0, 2, 3]
Return the index	I.index(element)	>>> L=[1,11,111]
of the first occurrence of an		>>>L.index(111)
element in a list.		2
If the element is		>>> L.index(33)
not present, the method raises		Traceback (most recent call last):
the ValueError		File " <stdin>", line 1, in?</stdin>
exception		ValueError: list.index(x): x not in list
Returns True if	<element>in</element>	>>> H=[1,2,3]
the element is		>>> 34 in H
present in the list and False		False
otherwise.		

Remove the first	I.remove(element)	>>> h=[1,2,3,2,4,5]
occurrence of an		>>>print(h.remove("new"))
element from a		>>>[1,3,2,4,5]]
list. If the item		>>> h.remove(34)
provided as a		Traceback (most recent call last):
parameter does		File " <stdin>", line 1, in?</stdin>
not exist in the		ValueError: list.remove(x): x not in list
list, the		
ValueError		
exception is		
thrown.		
Delete a part of a	del list[i :j]	>>> h=["asd", 12345, 1, 67, 89]
list, from index		>>>del hop[1:3]
		>>> hop

["asd", 67, 89]

i included to *j* excluded

The method	I.sort() sorted(I)	>>>numbers = [17, 38, 10, 25, 72]
sort(), sort the		>>>print{numbers.sort())
elements of the		[10,17,25,38,72]
list in the		>>> a = ["hello", 1, "world", 45, 2]
ascending order.		>>> print(a.sort())
The built-in		[1, 2, 45, "hello", "world"]
function sorted()		>>> a = [[2, 3], [1, 6]]
returns a new		>>>print(a.sort())
sorted list		[[1, 6], [2, 3]]
without		>>> a = [4, 3, 5, 9, 2]
modifying the		>>> print(sorted(a))
source list .		[2, 3, 4, 5, 9]
		>>> print(a)
		[4, 3, 5, 9, 2]
Replace the	L1[i,j]=L2	>>>L1=[10,20,30,40,50,60]
sub-list of L1 from index i to j		>>>L1[0:4]=[-1,-2]
by the list L2.		>>>print(L1)
		[-1,-2,50,60]
Reverse a list	I[::-1]	>>> L=[0,1,2,3]
		>>>print(L[::-1])
		[3, 2, 1, 0]
number of	list.count(value)	>>>l= [3,2,4,2,3]
occurrences of		>>>print(l.count(2))
a value in the		2
list		

Create a list of	zip(l1,l2)	>>> print(zip(["a", "b", "c"], [1, 2, 3]))
pairs from two		[("a", 1), ("b", 2), ("c", 3)]
lists. It is useful		
when we want to iterate over two lists together.		