

List.insert(idx, el) # insert element at index.

List = [2, 1, 3, 1]

List.remove(1) # removes first occurrence of
element [2, 3, 1]

List.pop(idx) # removes elements at idx.

→ List Methods :-

List = [2, 1, 3]

List.append(4) # adds one element at the end.
[2, 1, 3, 4]

then print(List)

List.sort() # sorts in ascending order [1, 2, 3]

List.sort(reverse=True) # sorts in descending order

[3, 2, 1]

List.reverse() # reverses list [3, 2, 1]

List.insert(idx, el) # insert element at index.

⇒ Note in List we can also sort string,
but it will sort alphabetically

List = ["banana", "litchi", "apple"]

print(List.sort())

print(List)

answer: ['apple', 'banana', 'litchi']

we can also reverse it :-

List = ["banana", "litchi", "apple"]

print(List.sort(reverse=True))

print(List)

output ['litchi', 'banana', 'apple']

→ Similarly characters

List = ['a', 'd', 'e', 'f', 'c', 'b']

List.reverse()

print(List)

it will reverse original
string

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

List Slicing - it is similar to string slicing. It is the sublist (of actual string).

List-name [starting_idx : ending_idx] # ending idx is not included

marks = [87, 64, 33, 95, 76]

marks [1:4] is [64, 33, 95]

marks [:4] is same as marks [0:4]

→ Negative index :-

marks = [87, 64, 33, 95, 76]
 -5 -4 -3 -2 -1

ex:- marks [-3:-1] is [33, 95]

⇒ List in Python: A built-in data type that stores set of values.

it can store elements of different types
(integer, float, string, etc)

ex:-

marks = [87, 64, 33, 95, 76] → square brackets # marks[0]

student = ["Karan", 85, "Delhi"]

student[0] = "Arjun"

len (student) # return length

ex:- marks = [94.4, 87.5, 95.2, 66.4, 46.1]

print (marks)

print (len(marks))

print (marks[0]) print (type(marks))

Note:- in array we just store the same type of data type - but in List we can store different elements

⇒ Note:- in Python strings are immutable.

means which are not changeable. in python it is allow to access the string value using index.

Lists are mutable | but not allow to change
are inside the list

it is allow to change

& access the value

ex:- student = ["Naveen", 25, 122]

print (student)

student[0] = "Musavir"

print (student)

ex:- str = "hello"

print (str[0])

str[0] = "X"

This operation
Python does not allow.