

How to Remove Specific Item or Item at Given Index from Python List?

Remove an item from Python List

You can remove or delete an object from Python List at specified position; or delete a specific object from the list.

`list.remove(object)` can be used to remove a specific object from the list. `remove()` removes only the first occurrence of the object in the list. Subsequent occurrences of the object remain in the list.

`del list[index]` can be used to remove an object from specific index of the list.

Remove specific object from Python List

To remove a specific object from the list, call `remove()` on the list with the object passed as argument to `remove()`.

example.py – Python Program

```
#initialize list
aList = [True, 28, 'Tiger', 'Lion']

#remove specific item
aList.remove('Tiger')

#print list
print(aList)
```

Output

```
[True, 28, 'Lion']
```

The specified object is removed from the list.

Try Removing object that is not present from Python List

An attempt to remove a specific object from Python List, where the specified object is not present in the list, results in `ValueError`.

example.py – Python Program

```
#initialize list
aList = [True, 28, 'Tiger', 'Lion']

#remove specific item
aList.remove('Rhino')

#print list
print(aList)
```

Output

```
Traceback (most recent call last):
  File "example1.py", line 5, in <module>
    aList.remove('Rhino')
ValueError: list.remove(x): x not in list
```

ValueError occurs with the message `list.remove(x): x not in list`.

Try Removing object that has multiple occurrences in the Python List

In the following example, we initialize a list with an object `'Tiger'` having multiple occurrences. When we apply `remove('Tiger')` on the list, only the first occurrence is removed.

example.py – Python Program

```
#initialize list
aList = [True, 28, 'Tiger', 'Lion', 'Tiger']

#remove object
aList.remove('Tiger')

#print list
print(aList)
```

Output

```
[True, 28, 'Lion', 'Tiger']
```

Remove Object from Python List at a specified position

To delete an object at a specific position from Python List, use `del`.

The syntax is `del list[index]`.

In the following Python program, we initialize a Python list and delete an item at index 2.

example.py – Python Program

```
#initialize list
aList = [True, 28, 'Tiger', 'Lion']

#remove item from specific position
del aList[2]

#print list
print(aList)
```

Output

```
[True, 28, 'Lion']
```

Conclusion

In this [Python Tutorial](#), we learned to remove a particular object from the list or delete an item from given index of the list.

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