Cheat Sheet

List Methods

Python provides list methods that allow us to work with lists.

Let's learn few among them

- append()
- extend()
- insert()
- pop()
- clear()
- remove()
- sort()
- index()

Append

list.append(value) Adds an element to the end of the list.

Code

PYTHON

```python
list_a = []
for x in range(1,4):
    list_a.append(x)
print(list_a)
```

Output

```
[1, 2, 3]
```

Extend

list_a.extend(list_b) Adds all the elements of a sequence to the end of the list.

Code

PYTHON

```python
list_a = [1, 2, 3]
list_b = [4, 5, 6]
list_a.extend(list_b)
print(list_a)
```

Output

```
[1, 2, 3, 4, 5, 6]
```

Insert

list.insert(index,value) Element is inserted to the list at specified index.

Code

PYTHON

```python
list_a = [1, 2, 3]
list_a.insert(1,4)
print(list_a)
```

Output

```
[1, 4, 2, 3]
```

Pop

list.pop() Removes last element.

Code

PYTHON

```python
list_a = [1, 2, 3]
list_a.pop()
print(list_a)
```

Output

```
[1, 2]
```

Remove

list.remove(value) Removes the first matching element from the list.

Code

PYTHON

```python
list_a = [1, 3, 2, 3]
list_a.remove(3)
print(list_a)
```

Output

```
[1, 2, 3]
```

Clear

list.clear() Removes all the items from the list.

Code

PYTHON

```python
list_a = [1, 2, 3]
list_a.clear()
print(list_a)
```

Output

```
[]
```

Index

list.index(value) Returns the index at the first occurrence of the specified value.

Code

PYTHON

```python
list_a = [1, 3, 2, 3]
index =list_a.index(3)
print(index)
```

Output

```
1
```

Count

list.count(value) Returns the number of elements with the specified value.

Code

PYTHON

```python
list_a = [1, 2, 3]
count = list_a.count(2)
print(count)
```

Output

```
1
```

Sort

list.sort() Sorts the list.

Code

PYTHON

```
1  list_a = [1, 3, 2]
2  list_a.sort()
3  print(list_a)
```

Output

```
[1, 2, 3]
```

Sort & Sorted

sort() Modifies the list

Code

PYTHON

```
1  list_a = [1, 3, 2]
2  list_a.sort()
3  print(list_a)
```

Output

```
[1, 2, 3]
```

sorted() Creates a new sorted list

Code

PYTHON

```python
list_a = [1, 3, 2]
sorted(list_a)
print(list_a)
```

Output

```
[1, 3, 2]
```

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