Python List

**Lists**are just like the arrays, declared in other languages. Lists need not be homogeneous always which makes it a most powerful tool in Python.

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| **FUNCTION** | **DESCRIPTION** |
| Append() | Add an element to the end of the list |
| Extend() | Add all elements of a list to the another list |
| Insert() | Insert an item at the defined index |
| Remove() | Removes an item from the list |
| Pop() | Removes and returns an element at the given index |
| Clear() | Removes all items from the list |
| Index() | Returns the index of the first matched item |
| Count() | Returns the count of number of items passed as an argument |
| Sort() | Sort items in a list in ascending order |
| Reverse() | Reverse the order of items in the list |
| copy() | Returns a copy of the list |

#### Built-in functions with List

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| **FUNCTION** | **DESCRIPTION** |
| reduce() | apply a particular function passed in its argument to all of the list elements stores the intermediate result and only returns the final summation value |
| sum() | Sums up the numbers in the list |
| ord() | Returns an integer representing the Unicode code point of the given Unicode character |
| cmp() | This function returns 1, if first list is “greater” than second list |
| max() | return maximum element of given list |
| min() | return minimum element of given list |
| all() | Returns true if all element are true or if list is empty |
| any() | return true if any element of the list is true. if list is empty, return false |
| len() | Returns length of the list or size of the list |
| enumerate() | Returns enumerate object of list |
| accumulate() | apply a particular function passed in its argument to all of the list elements returns a list containing the intermediate results |
| filter() | tests if each element of a list true or not |
| map() | returns a list of the results after applying the given function to each item of a given iterable |
| lambda() | This function can have any number of arguments but only one expression, which is evaluated and returned. |