List Methods

Contain functions for better working for list

Functions of List are :

Appending an Element to the List

```
def append_element():
    l = [1, 2, 3]  # Initial list
    l.append(7)  # Append 7 to the list
    print(f"List after append: {l}")

append_element()
```

Sorting the List in Ascending Order

```
def sort_ascending():
    l = [1, 2, 3, 7]
    l.sort()

    print(f"List after sorting  : {l}")

sort_ascending()
```

Sorting the List in Descending Order

```
def sort_descending():
    l = [1, 2, 3, 7]
    l.sort(reverse=True)  # Sort the list in
descending order
    print(f"List after sorting  : {l}")

sort_descending()
```

Reversing the List

```
def reverse_list():
    l = [7, 3, 2, 1]
    l.reverse()  # Reverse the list
    print(f"List after reversing: {l}")

reverse_list()
```

Finding the Index of an Element

```
def find_index():
    l = [7, 3, 2, 1]
    index = l.index(1)

    print(f"Index of element 1: {index}")

find_index()
```

Counting Occurrences of an Element

```
def count_occurrences():
    l = [7, 3, 2, 1, 1]
    count = l.count(1)

    print(f“ Occurrences of 1: {count}")

count_occurrences()
```

Copying A List

```
def copy_list():
    l = [7, 3, 2, 1]
    a = l.copy()  # Create a shallow copy of
the list
    print(f"Original list: {l}")
    print(f"Copied list: {a}")

copy_list()
```

Inserting an Element at a Specific Index

```
def insert_element():
    l = [7, 3, 2, 1]
    l.insert(1, 899)  # Insert 899 at index 1
    print(f"List after insertion: {l}")

insert_element()
```

Extending One List with Another

```
def extend_list():
    l1 = [1, 2, 3]
    l2 = [1, 2, 3]
    l1.extend(l2)  # Extend l1 with the
elements of l2
    print(f"List l1 after extending: {l1}")

extend_list()
```