

Ex no 2 B . Write a python program to create a list and perform the following operations

- Inserting an element
- Removing an element
- Appending an element
- Displaying the length of the list
- Popping an element
- Clearing the list

Index	Value
0	10
1	20
2	30
3	40
4	50

`my_list.insert(2, 25)` means insert the number 25 at position/index 2 in the list.

`insert(2, 25)` says:

- 2 → position/index where you want to insert
- 25 → value you want to insert

So 25 is inserted before the existing element at index 2 (30).

List Operations

```
my_list = [10, 20, 30, 40, 50]
```

```
print("Original list:", my_list)
```

Inserting an element

```
my_list.insert(2, 25)
```

```
print("After inserting 25:", my_list)
```

Removing an element

```
my_list.remove(40)
```

```
print("After removing 40:", my_list)
```

Appending an element

```
my_list.append(60)
```

```
print("After appending 60:", my_list)
```

Displaying the length of the list

```
print("Length of the list:", len(my_list))
```

Popping an element

```
my_list.pop()
```

```
print("After popping an element:", my_list)
```

Clearing the list

```
my_list.clear()
```

```
print("After clearing the list:", my_list)
```

```
List Operation insert etc.py - C:/Users/066/Desktop/Jones/Python pgm/List Operation insert...
File Edit Format Run Options Window Help

# List Operations

my_list = [10, 20, 30, 40, 50]

print("Original list:", my_list)

# Inserting an element
my_list.insert(2,25)
print("After inserting 25:", my_list)

# Removing an element
my_list.remove(40)
print("After removing 40:", my_list)

# Appending an element
my_list.append(60)
print("After appending 60:", my_list)

# Displaying the length of the list
print("Length of the list:", len(my_list))

# Popping an element
my_list.pop()
print("After popping an element:", my_list)

# Clearing the list
my_list.clear()
print("After clearing the list:", my_list)
```

```
IDLE Shell 3.13.7
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Python 3.13.7 (tags/v3.13.7:bceelc3, Aug 14 2025, 14:
AMD64) on win32
Enter "help" below or click "Help" above for more in

>>>
== RESTART: C:/Users/066/Desktop/Jones/Python pgm/Lis
Original list: [10, 20, 30, 40, 50]
After inserting 25: [10, 20, 25, 30, 40, 50]
After removing 40: [10, 20, 25, 30, 50]
After appending 60: [10, 20, 25, 30, 50, 60]
Length of the list: 6
After popping an element: [10, 20, 25, 30, 50]
After clearing the list: []
>>> |
```

Output