

In [1]:

```
1 # Create a List
2 my_list = [10, 20, 30, 40]
3 print("Initial List:", my_list)
4
5 # Add elements to the list
6 my_list.append(50)
7 print("List after adding an element:", my_list)
8
9 # Remove elements from the list
10 my_list.remove(20)
11 print("List after removing an element:", my_list)
12
13 # Modify elements in the list
14 my_list[1] = 25 # Changing element at index 1
15 print("List after modifying an element:", my_list)
```

Initial List: [10, 20, 30, 40]

List after adding an element: [10, 20, 30, 40, 50]

List after removing an element: [10, 30, 40, 50]

List after modifying an element: [10, 25, 40, 50]

In [5]:

```
1 # Create a Dictionary
2 my_dict = {'name': 'Sukruth M', 'age': 23, 'city': 'Mysuru'}
3 print("\nInitial Dictionary:", my_dict)
4
5 # Add elements to the dictionary
6 my_dict['Designation'] = 'Engineer'
7 print("Dictionary after adding an element:", my_dict)
8
9 # Remove elements from the dictionary
10 del my_dict['city']
11 print("Dictionary after removing an element:", my_dict)
12
13 # Modify elements in the dictionary
14 my_dict['age'] = 26 # Updating the value of 'age'
15 print("Dictionary after modifying an element:", my_dict)
```

Initial Dictionary: {'name': 'Sukruth M', 'age': 23, 'city': 'Mysuru'}

Dictionary after adding an element: {'name': 'Sukruth M', 'age': 23, 'city': 'Mysuru', 'Designation': 'Engineer'}

Dictionary after removing an element: {'name': 'Sukruth M', 'age': 23, 'Designation': 'Engineer'}

Dictionary after modifying an element: {'name': 'Sukruth M', 'age': 26, 'Designation': 'Engineer'}

```
In [4]: 1 # Create a Set
2 my_set = {1, 2, 3, 4}
3 print("\nInitial Set:", my_set)
4
5 # Add elements to the set
6 my_set.add(5)
7 print("Set after adding an element:", my_set)
8
9 # Remove elements from the set
10 my_set.discard(2)
11 print("Set after removing an element:", my_set)
```

Initial Set: {1, 2, 3, 4}

Set after adding an element: {1, 2, 3, 4, 5}

Set after removing an element: {1, 3, 4, 5}

```
In [ ]: 1
```