```python
In [2]:  # Create a list
         my_list = [1,2,3,4,5]
         print("Initial list:", my_list)

         # Add an element to the list
         my_list.append(8)
         print("List after adding an element:", my_list)

         # Remove an element from the list
         my_list.remove(3)
         print("List after removing an element:", my_list)

         # Modify an element in the list
         my_list[1] = 15
         print("List after modifying an element:", my_list)
```

```
Initial list: [1, 2, 3, 4, 5]
List after adding an element: [1, 2, 3, 4, 5, 8]
List after removing an element: [1, 2, 4, 5, 8]
List after modifying an element: [1, 15, 4, 5, 8]
```

```python
In [4]:  # Create a dictionary
         my_dict = {'name': 'Shivam' , 'age' : 19 , 'city' : 'Mumbai'}
         print("Initial dictionary:", my_dict)

         # Add an element to the dictionary
         my_dict['gender'] = 'Male'
         print("Dictionary after adding an element:", my_dict)

         # Remove an element from the dictionary
         del my_dict['age']
         print("Dictionary after removing an element:", my_dict)

         # Modify an element in the dictionary
         my_dict["city"] = "Delhi"
         print("Dictonary after modifying an element:", my_dict)
```

```
Initial dictionary: {'name': 'Shivam', 'age': 19, 'city': 'Mumbai'}
Dictionary after adding an element: {'name': 'Shivam', 'age': 19, 'city': 'Mumbai', 'gender': 'Male'}
Dictionary after removing an element: {'name': 'Shivam', 'city': 'Mumbai', 'gender': 'Male'}
Dictonary after modifying an element: {'name': 'Shivam', 'city': 'Delhi', 'gender': 'Male'}
```

```python
In [6]:  # Create a set
         my_set = {100,200,300,400}
         print("Initial set :", my_set)

         # Add an element to the set
         my_set.add(500)
         print("Set after adding an element:", my_set)

         # Remove an element from the set
         my_set.remove(200)
         print("Set after removing an element:", my_set)

         # Modifying an element in the  set
         my_set.discard(400)
         my_set.add(600)
         print("Set after modifying an elements:", my_set)
```

```
Initial set : {200, 100, 400, 300}
Set after adding an element: {100, 200, 300, 400, 500}
```

```
Set after removing an element: {100, 300, 400, 500}
Set after modifying an elements: {100, 300, 500, 600}
```

In [ ]: