## TASK:1

Write a Python program to create a list, a dictionary, and a set. Perform basic operations like adding, removing, and modifying elements.

## LIST:

## **DICTIONARY:**

```
In [4]: ► # Modifying an element in the list
            my_list[2] = 10
           print("Constructed List of an element:", my_list)
            Constructed List of an element: [6, 9, 10, 21, 24, 27, 6]
In [5]: ► # Creating a dictionary
            my_dict = {'g': 7, 'y': 25, 'a': 1}
            print("\nOriginal Dictionary:", my_dict)
            Original Dictionary: {'g': 7, 'y': 25, 'a': 1}
In [6]: ▶ # Adding an element to the dictionary
            my_dict['n'] = 4
            print("Dictionary after adding an element:", my_dict)
            Dictionary after adding an element: \{'g': 7, 'y': 25, 'a': 1, 'n': 4\}
In [7]: ► # Removing an element from the dictionary
            del my_dict['g']
            print("Dictionary after removing an element:", my_dict)
            Dictionary after removing an element: {'y': 25, 'a': 1, 'n': 4}
In [8]: ▶ # Modifying an element in the dictionary
           my_dict['a'] = 10
           print(" Constructed Dictionary of an element:", my_dict)
             Constructed Dictionary of an element: {'y': 25, 'a': 10, 'n': 4}
```

## **SET:**

```
In [9]: ► # Creating a set
           my_set = {2,4,6,8,10,12,14,16,18,20}
           print("\nOriginal Set:", my_set)
           Original Set: {2, 4, 6, 8, 10, 12, 14, 16, 18, 20}
In [10]: ▶ # Adding an element to the set
           my_set.add(7)
           print("Set after adding an element:", my_set)
           Set after adding an element: {2, 4, 6, 7, 8, 10, 12, 14, 16, 18, 20}
In [11]: ▶ # Removing an element from the set
           my_set.remove(4)
           print("Set after removing an element:", my_set)
           Set after removing an element: {2, 6, 7, 8, 10, 12, 14, 16, 18, 20}
my_set.add(101)
           print("Constructed set of an element:", my_set)
           Constructed set of an element: \{2, 101, 7, 8, 10, 12, 14, 16, 18, 20\}
```