

# TASK 1

## LIST:

```
#creating a list
my_list=[10,20,30,40,50]
print("Original list\t\t\t: ",my_list)

#adding an element in the list
my_list.append(60)
print("List after adding an element\t: ",my_list)

#removing an element from the list
my_list.remove(50)
print("List after removing an element\t: ",my_list)

#modifying an element in the list
my_list[3]=50
print("List after modification\t\t: ",my_list)
```

```
Original list          : [10, 20, 30, 40, 50]
List after adding an element : [10, 20, 30, 40, 50, 60]
List after removing an element : [10, 20, 30, 40, 60]
List after modification    : [10, 20, 30, 50, 60]
```

## DICTIONARY:

```
#creating a dictionary
my_dict={'Name': 'John', 'Age': 25, 'City': 'Delhi'}
print("Original dictionary\t\t\t: ",my_dict)

#adding a key
my_dict['Gender']='Male'
print("Dictionary after adding a key-value pair\t: ",my_dict)

#removing a key
my_dict.pop('Age')
print("Dictionary after removing a key-value pair\t: ",my_dict)

#modifying a key
d1={'City': 'Mumbai'}
my_dict.update(d1)
print("Dictionary after modifying a key-value pair \t: ",my_dict)
```

```
Original dictionary          : {'Name': 'John', 'Age': 25, 'City': 'Delhi'}
Dictionary after adding a key-value pair : {'Name': 'John', 'Age': 25, 'City': 'Delhi', 'Gender': 'Male'}
Dictionary after removing a key-value pair : {'Name': 'John', 'City': 'Delhi', 'Gender': 'Male'}
Dictionary after modifying a key-value pair : {'Name': 'John', 'City': 'Mumbai', 'Gender': 'Male'}
```

## SET :

```
#creating a set
my_set={10,20,30,40,50}
print("Original set\t\t\t: ",my_set)

#adding an element
my_set.add(60)
print("Set after adding an element\t: ",my_set)

#removing an element
my_set.remove(50)
print("Set after removing an element\t: ",my_set)

#modifying an element
my_set.add(100)
my_set.discard(10)
print("Set after modifying an element\t: ",my_set)
```

```
Original set          : {50, 20, 40, 10, 30}
Set after adding an element : {50, 20, 40, 10, 60, 30}
Set after removing an element : {20, 40, 10, 60, 30}
Set after modifying an element : {20, 100, 40, 60, 30}
```