Create a List and perform basic operation

> Adding an Element

> Removing an Element

> Modifying the element in list

```
lst1=[]
n=int(input("Enter the number of element you want to add : "))
for i in range(n):
  x=int(input("Enter the element you want to add : "))
  lst1.append(x)
print("Here is Your List :81 ",lst1)
```

```
Enter the number of element you want to add : 10
Enter the element you want to add : 2
Enter the element you want to add : 82
Enter the element you want to add : 83
Enter the element you want to add : 56
Enter the element you want to add : 23
Enter the element you want to add : 5
Enter the element you want to add : 123
Enter the element you want to add : 53
Enter the element you want to add : 84
Enter the element you want to add : 65
Here is Your List :  [2, 82, 83, 56, 23, 5, 123, 53, 84, 65]
```

Removing the element from the list

```
lst1.remove(82)
print(lst1)

lst1.pop()
print(lst1)
```

```
[2, 83, 56, 23, 5, 123, 53, 84, 65]
[2, 83, 56, 23, 5, 123, 53, 84]
```

Modifying the list

```
lst1[0]=10
print(lst1)
```

```
[10, 83, 56, 23, 5, 123, 53, 84]
```

Dictionary Basic operation

> Adding Key and value pair

```
my_dict={
    'Name':'Student1',
    'roll':'04',
    'Address':'pune'
}
my_dict['Contact']=12345789
print(my_dict)
```

```
{'Name': 'Student1', 'roll': '04', 'Address': 'pune', 'Contact': 12345789}
```

Removing key from dictionary from existing my_dict

```
print("Original dictionary : ",my_dict)
my_dict.pop("Address")
print("After Removing Specific key : ",my_dict)
```

```
Original dictionary :  {'Name': 'Student1', 'roll': '04', 'Address': 'pune', 'Contact': 12345789}
After Removing Specific key :  {'Name': 'Student1', 'roll': '04', 'Contact': 12345789}
```

Modification in dictionary

```
print("Before modification of dict : ",my_dict)
my_dict['Name']="Student2"
print("After Modification : ",my_dict)
```

```
Before modification of dict :  {'Name': 'Student2', 'roll': '04', 'Contact': 12345789}
After Modification :  {'Name': 'Student2', 'roll': '04', 'Contact': 12345789}
```

Set Operation

Perform Addition operation in Set

```
set1={1,2,3,4}
set1.add(5)
print(set1)
```

```
{1, 2, 3, 4, 5}
```

Removing element from the Set !

```
print("Original set : ",set1)
set1.remove(3)
print("After Removing operation : ",set1)
```

```
Original set :  {1, 3, 4, 5}
After Removing operation :  {1, 4, 5}
```

Union , Diffrence Operation

```
set1={1,2,3,5,6}
set2={3,4}
z=set1.union(set2)
print("Union of two set : ",z)
z1=set1.difference(set2)
print("Difference of two set : ",z1)
z2=set1.symmetric_difference(set2)
print("Symmetric Difference : ",z2)
```

```
Union of two set :  {1, 2, 3, 4, 5, 6}
Difference of two set :  {1, 2, 5, 6}
Symmetric Difference :  {1, 2, 4, 5, 6}
```