**List Lab Assignment**

1. Write a Python program to sum and multiplication of all the items in a list.
2. Write a Python program to count the number of strings where the string length is 2 or more and the first and last character are same from a given list of strings.
3. Write a Python program to remove duplicates from a list.
4. Write a Python program to check a list is empty or not.
5. Write a Python program to convert a list of characters into a string.
6. Write a Python program to append a list to the second list.
7. Write a Python program to create a list by concatenating a given list which range goes from 1 to n.

For Example

Sample list : ['x', 'Y']  
n =3  
Sample Output : ['x1', 'y1', 'x2', 'y2', 'x3', 'y3']

1. WAP to perform binary search in a list.