

## List Basics:

1. Write a Python program to sum all the items in a list
2. Write a Python program to multiply all the items in a list
3. Write a Python program to get the largest number from a list.
4. Write a Python program to get the smallest number from a list.
5. 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.
6. Write a Python program to remove duplicates from a list.
7. Write a Python program to check a list is empty or not
8. Write a Python program to clone or copy a list
9. Write a Python program to find the list of words that are longer than n from a given list of words
10. Write a Python function that takes two lists and returns True if they have at least one common member.
11. Write a Python program to print the numbers of a specified list after removing even numbers from it.

## Challenge:

12. Given n non-negative integers representing an elevation map where the width of each bar is 1. Compute how much water it can trap after raining!

Here the elevation map (the input for the algorithm) is [4,1,3,1,5] and the output is the total units of trapped

rain water - which is 7.

```

      #
#      #
#  #  #
#  #  #
# # # # #
4 1 3 1 5
      #
# [] [] [] #
# [] # [] #
# [] # [] #
# # # # #
4 1 3 1 5 (Total [] = 7 )
```

So, Water trapped is 7