1. Write a Python program to sum all the items in a list.

2. Write a Python program to multiplies 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.
Sample List : ['abc', 'xyz', 'aba', '1221']
Expected Result : 2

6. Write a Python program to get a list, sorted in increasing order by the last element in each tuple from a given list of non-empty tuples.
Sample List : [(2, 5), (1, 2), (4, 4), (2, 3), (2, 1)]
Expected Result : [(2, 1), (1, 2), (2, 3), (4, 4), (2, 5)]

7. Write a Python program to remove duplicates from a list.

8. Write a Python program to check a list is empty or not.

9. Write a Python program to clone or copy a list.

10. Write a Python program to find the list of words that are longer than n from a given list of words.

11. Write a Python function that takes two lists and returns True if they have at least one common member.

12. Write a Python program to print a specified list after removing the 0th, 4th and 5th elements.
Sample List : ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow']
Expected Output : ['Green', 'White', 'Black']

13. Write a Python program to generate a 3*4*6 3D array whose each element is *.

14. Write a Python program to print the numbers of a specified list after removing even numbers from it.

15. Write a Python program to shuffle and print a specified list.

16. Write a Python program to generate and print a list of first and last 5 elements where the values are square of numbers between 1 and 30 (both included).

17. Write a Python program to generate and print a list except for the first 5 elements, where the values are square of numbers between 1 and 30 (both included).

18. Write a Python program to generate all permutations of a list in Python.

19. Write a Python program to get the difference between the two lists.

20. Write a Python program access the index of a list.

21. Write a Python program to convert a list of characters into a string.

22. Write a Python program to find the index of an item in a specified list.

23. Write a Python program to flatten a shallow list.

24. Write a Python program to append a list to the second list.

25. Write a Python program to select an item randomly from a list.

26. Write a python program to check whether two lists are circularly identical.

27. Write a Python program to find the second smallest number in a list.

28. Write a Python program to find the second largest number in a list.

29. Write a Python program to get unique values from a list.

30. Write a Python program to get the frequency of the elements in a list.

31. Write a Python program to count the number of elements in a list within a specified range.

32. Write a Python program to check whether a list contains a sublist.

33. Write a Python program to generate all sublists of a list.

34. Write a Python program using Sieve of Eratosthenes method for computing primes upto a specified number.
Note: In mathematics, the sieve of Eratosthenes, (Ancient Greek: κόσκινον Ἐρατοσθένους, kóskinon Eratosthénous) one of a number of prime number sieves, is a simple, ancient algorithm for finding all prime numbers up to any given limit.

35. Write a Python program to create a list by concatenating a given list which range goes from 1 to n.

Sample list : ['p', 'q']
n =5
Sample Output : ['p1', 'q1', 'p2', 'q2', 'p3', 'q3', 'p4', 'q4', 'p5', 'q5']

36. Write a Python program to get variable unique identification number or string.

37. Write a Python program to find common items from two lists.

38. Write a Python program to change the position of every n-th value with the (n+1)th in a list.
Sample list: [0,1,2,3,4,5]
Expected Output: [1, 0, 3, 2, 5, 4]

39. Write a Python program to convert a list of multiple integers into a single integer.
Sample list: [11, 33, 50]
Expected Output: 113350

40. Write a Python program to split a list based on first character of word.

41. Write a Python program to create multiple lists.

42. Write a Python program to find missing and additional values in two lists.
Sample data : Missing values in second list: b,a,c
Additional values in second list: g,h

43. Write a Python program to split a list into different variables.

44. Write a Python program to generate groups of five consecutive numbers in a list.

45. Write a Python program to convert a pair of values into a sorted unique array.

46. Write a Python program to select the odd items of a list.

47. Write a Python program to insert an element before each element of a list.

48. Write a Python program to print a nested lists (each list on a new line) using the print() function.

49. Write a Python program to convert list to list of dictionaries.
Sample lists: ["Black", "Red", "Maroon", "Yellow"], ["#000000", "#FF0000", "#800000", "#FFFF00"]
Expected Output: [{'color_name': 'Black', 'color_code': '#000000'}, {'color_name': 'Red', 'color_code': '#FF0000'}, {'color_name': 'Maroon', 'color_code': '#800000'}, {'color_name': 'Yellow', 'color_code': '#FFFF00'}]

50. Write a Python program to sort a list of nested dictionaries.

51. Write a Python program to split a list every Nth element.
Sample list: ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n']
Expected Output: [['a', 'd', 'g', 'j', 'm'], ['b', 'e', 'h', 'k', 'n'], ['c', 'f', 'i', 'l']]

52. Write a Python program to compute the similarity between two lists.
Sample data: ["red", "orange", "green", "blue", "white"], ["black", "yellow", "green", "blue"]
Expected Output:
Color1-Color2: ['white', 'orange', 'red']
Color2-Color1: ['black', 'yellow']

53. Write a Python program to create a list with infinite elements.

54. Write a Python program to concatenate elements of a list.

55. Write a Python program to remove key values pairs from a list of dictionaries.

56. Write a Python program to convert a string to a list.

57. Write a Python program to check if all items of a list is equal to a given string.

58. Write a Python program to replace the last element in a list with another list.
Sample data : [1, 3, 5, 7, 9, 10], [2, 4, 6, 8]
Expected Output: [1, 3, 5, 7, 9, 2, 4, 6, 8]

59. Write a Python program to check if the n-th element exists in a given list.

60. Write a Python program to find a tuple, the smallest second index value from a list of tuples.

61. Write a Python program to create a list of empty dictionaries.

62. Write a Python program to print a list of space-separated elements.

63. Write a Python program to insert a given string at the beginning of all items in a list.
Sample list : [1,2,3,4], string : emp
Expected output : ['emp1', 'emp2', 'emp3', 'emp4']

64. Write a Python program to iterate over two lists simultaneously.

65. Write a Python program to access dictionary keys element by index.

66. Write a Python program to find the list in a list of lists whose sum of elements is the highest.
Sample lists: [1,2,3], [4,5,6], [10,11,12], [7,8,9]
Expected Output: [10, 11, 12]

67. Write a Python program to find all the values in a list are greater than a specified number.

68. Write a Python program to extend a list without append.
Sample data: [10, 20, 30]
[40, 50, 60]
Expected output : [40, 50, 60, 10, 20, 30]

69. Write a Python program to remove duplicates from a list of lists.
Sample list : [[10, 20], [40], [30, 56, 25], [10, 20], [33], [40]]
New List : [[10, 20], [30, 56, 25], [33], [40]]

70. Write a Python program to get the depth of a dictionary.

71. Write a Python program to check if all dictionaries in a list are empty or not.
Sample list : [{},{},{}]
Return value : True
Sample list : [{1,2},{},{}]
Return value : False