

List Assignment - 3

Q1. Write a python program to divide the list into two equal halves and print the sum of each half.

lst1 = [2,4,6,8,3,5,8,9]

Output: 20, 25

$(2+4+6+8)$

$(3+5+8+9)$

Q2. Write a program to delete the element at the index equal to half the length of the given list. Print the list before and after deletion.

Before: [2,3,4,5,6,7,8]

After: [2,3,4,6,7,8]

Note: List can be changed.

Q3. Write a program to append a new integer to this list, which is the sum of the first and last elements of the list. Print the list before and after appending.

Sample List: [23,43,56,87]

Output: [23,43,56,87,110]

$(23+87)$

Q4. Write a program to insert the product of the first and last elements at the third position in the list. Print the list before and after insertion.

Sample list = [34,56,23,76,23,46]

Output: [34,56,23,1564,76,23,46]



$(34 * 46)$

Q5. Write a program to print the list of first and last elements of each list of lists.

lst2 = [[23,45,76],[45,3,12],[3,5,20]]

Output: [23,76,45,12,3,20]

Q6. Write a program to calculate and print the sum of max elements of each list of lists.

lst3 = [[1,2,4,5],[3,5,4,3],[4,5,3,2]]

Output: 15



$(5+5+5)$

Q7. Write a program to calculate and print the sum of elements in each list of lists and add the resultant values. Without using sum() function.

Sample list = [[1,2,4,5],[3,5,4,3],[4,5,3,2]]

Output: [12, 15, 14]



$(12+15+14)$

lst = [2,5,7,1,4,6,10,11,6,12]

Q8. Find the largest element of the above given list **without** using max() and sort() functions.

Q9. Find the Smallest element of the above given list **without** using min() and sort() functions.

Q10. Find the Second largest element of the above given list **without** using max() and sort() functions.

Q11. Find the Second Smallest element of the above given list **without** using min() and sort() functions.