

# Raj Institute of Coding & Robotics

4th Floor, Minal Mall, Minal Residency, Bhopal- 462023

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#### <u>List Assignment - 3</u>

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

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)



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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]



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

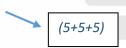
$$lst2 = [[23,45,76],[45,3,12],[3,5,20]]$$

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



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]





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#### 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.