

Raj Institute of Coding & Robotics

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<u>List Assignment - 4</u>

Q1. Create a new list which have the squares of every element of the given list using list comprehension.

$$Ist = [2,3,4,5,6,7]$$

Output = [4,9,16,25,36,49]

- Q2. Write a Python program using a list comprehension to create a list of even numbers less than 8 from 1 to 20.
- Q3. Write a Python program using a list comprehension to create a list of numbers from 1 to 10, but only include numbers that are greater than 5.
- Q4. Write a Python program using a list comprehension to create a list of the first letters of each word in the given list.

Q5. Write a Python program using a list comprehension to create a list of the lengths of each word in the given list.



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Q6. Write a Python program using a nested list comprehension to flatten the given list.

Input list: [[1, 2, 3], [4, 5], [6, 7, 8]].

Output: [1, 2, 3, 4, 5, 6, 7, 8]

Q7. Write a Python program using a list comprehension to create a list of numbers from 1 to 20 that are divisible by both 2 and 3.

Q8. Write a Python program using a list comprehension to create a list of the sums of corresponding elements from the lists [1, 2, 3] and [4, 5, 6].

Output: [5, 7, 9]

Q9. Write a python program using list comprehension to create a list which has the sums of elements of list of given list.

$$lst = [[1,2,3],[3,4,5],[3,4,5],[5,7,3,2]]$$

Output: [6,12,12,17]

Q10. Write a python program using list comprehension to create a list which has the min of elements of list of given list.

$$lst = [[1,2,3],[3,4,5],[3,4,5],[5,7,3,2]]$$

Output: [1,3,3,2]