

Python Programming Questions – LIST

Basic Level

1. Write a Python program to create a list of integers and print its elements.
 2. Write a program to find the **sum and average** of all elements in a list.
 3. Write a program to find the **largest and smallest** element in a list.
 4. Write a Python program to **count the number of elements** in a list without using len().
 5. Write a program to **reverse a list** without using built-in functions.
 6. Write a program to **check if an element exists** in a list.
 7. Write a Python program to **remove duplicate elements** from a list.
 8. Write a program to **sort a list** in ascending and descending order.
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Intermediate Level

9. Write a program to **merge two lists** and remove duplicates.
 10. Write a program to **find common elements** between two lists.
 11. Write a program to **split a list into even and odd numbers**.
 12. Write a program to **rotate a list** by n positions.
 13. Write a Python program to **find the second largest number** in a list.
 14. Write a program to **flatten a nested list**.
 15. Write a program to **count frequency of each element** in a list.
 16. Write a program to **replace all negative numbers with zero** in a list.
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Advanced Level

17. Write a program to **remove all occurrences of a given element** from a list.
 18. Write a program to **check if a list is a palindrome**.
 19. Write a Python program to **find missing numbers** in a given list of consecutive integers.
 20. Write a program to **perform element-wise addition of two lists**.
 21. Write a Python program to **find the longest increasing subsequence** in a list.
 22. Write a program to **group elements based on frequency**.
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Python Programming Questions – TUPLE

Basic Level

23. Write a Python program to **create a tuple and print its elements**.
 24. Write a program to **find the length of a tuple**.
 25. Write a program to **find the maximum and minimum** element in a tuple.
 26. Write a program to **convert a tuple into a list**.
 27. Write a program to **check if an element exists** in a tuple.
 28. Write a program to **count occurrences of an element** in a tuple.
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Intermediate Level

29. Write a program to **slice a tuple** and display the result.
 30. Write a program to **find repeated elements** in a tuple.
 31. Write a program to **merge two tuples**.
 32. Write a program to **unpack elements of a tuple into variables**.
 33. Write a Python program to **sort a tuple**.
 34. Write a program to **convert a list of tuples into a dictionary**.
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Advanced Level

35. Write a program to **find the index of an element** in a tuple.
36. Write a program to **remove an element from a tuple** (without directly modifying it).
37. Write a program to **find common elements between two tuples**.
38. Write a Python program to **check if a tuple is a palindrome**.
39. Write a program to **find the element with maximum frequency** in a tuple.
40. Write a program to **create a nested tuple and access its elements**.