# Python List Mastery Practice Questions

## Beginner (Q110)

1. Create a list of 10 integers. Print the first and last elements.

2. Add 100 to the end of the list using append().

3. Insert 55 at position 5.

4. Delete the 3rd item in the list using del.

5. Remove the number 55 from the list using remove().

6. Pop the last item and print it.

7. Reverse the list using slicing.

8. Slice the list to get the middle 4 elements.

9. Print all even-indexed elements using a loop.

10. Create a list of 5 inputs from user and print it.

## Intermediate (Q1120)

11. Given a list of numbers, print the sum of all even numbers.

12. Find the max and min values in the list without using max() or min().

13. Count how many times 10 occurs in a list.

14. Replace all even numbers in a list with 'EVEN'.

15. Create a list of squares from 1 to 20 using list comprehension.

16. Print only the unique numbers from a list.

17. Find the second largest number in the list.

18. Sort the list in ascending order without using .sort().

19. Merge two lists and remove duplicates.

20. Create a list of only words that start with 'A' from a sentence.

## Advanced Logic (Q2130)

21. Remove duplicates from a list without using set().

22. Rotate a list right by k steps (e.g. [1,2,3,4,5], k=2  [4,5,1,2,3]).

23. Find all pairs in a list that sum to a given number.

24. Check if a list is a palindrome.

25. Find the frequency of each element and store it in a dictionary.

26. Find the common elements in two lists without using sets.

27. Flatten a nested list like [[1,2],[3,4],[5]] to [1,2,3,4,5].

28. Generate a list of prime numbers between 1 and 100.

29. Write a program that takes a list of marks and prints grade-wise result (like >=90: A, 80-89: B, etc.).

30. Group elements in a list by their frequency.