◆ PART A: Basic List Operations

1. Write a program to perform **list operations**.

2. Write a program to **access list items**.

3. Write a program to **change list items**.

4. Write a program to **replace list values**.

5. Write a program to use **append() method**.

6. Write a program to use **insert() method**.

7. Write a program to **extend list items**.

8. Write a program to **remove list item**.

9. Write a program to **clear entire list**.

◆ PART B: Fundamental List Programs

10. Write a program for **list traversal**.

11. Write a program to find **length of the list**.

12. Write a program to find **sum of list elements**.

13. Write a program to **decrement list values**.

14. Write a program to **append elements to list**.

◆ PART C: Basic Coding Problems on List

15. Write a program to find **maximum of two numbers**.

16. Write a program to find **minimum of two numbers**.

17. Write a program to **find length of a list**.

18. Write a program to **interchange first and last element**.

19. Write a program to **swap two elements**.

20. Write a program to **check if element exists** in a list.

21. Write a program to **reverse a list**.

22. Write a program to **clone or copy a list**.

23. Write a program to **count element in a list**.

◆ PART D: Numerical List Operations

24. Write a program to find **sum and average of a list**.

25. Write a program to find **sum of digits in a list**.

26. Write a program to **multiply all numbers in a list**.

27. Write a program to find **smallest number in a list**.

28. Write a program to find **largest number in a list**.

29. Write a program to find **second largest number in a list**.

◆ **PART E: Conditional List Programs**

30. Write a program to print **even numbers in a list**.

31. Write a program to print **odd numbers in a list**.

32. Write a program to **count even and odd numbers**.

33. Write a program to print **positive numbers in a list**.

34. Write a program to print **negative numbers in a list**.

35. Write a program to **count positive and negative numbers**.

◆ **PART F: List Modification Programs**

36. Write a program to **remove multiple elements from list**.

37. Write a program to **remove empty tuples from list**.

38. Write a program to **print duplicate elements**.

39. Write a program to **remove first element from list**.

40. Write a program to **remove duplicates from list**.

41. Write a program to **get unique values from list**.

◆ **PART G: List Combination & Comparison**

42. Write a program to **merge two lists**.

43. Write a program to **iterate over a list**.

44. Write a program to find **average of list**.

45. Write a program to **append element at beginning**.

46. Write a program to find **intersection of two lists**.

47. Write a program to **check if two lists are identical**.

48. Write a program to **print common elements of two lists**.

◆ PART H: Special List Utilities

49. Write a program to **select random value from list**.

50. Write a program to **get last element of list**.

51. Write a program to **remove None values from list**.

52. Write a program to find **max and min element position**.

◆ PART I: Intermediate Coding Problems on List

53. Write a program for **Less Than**.

54. Write a program to calculate **average**.

55. Write a program to **separate even and odd elements**.

56. Write a program to find **second largest element**.

57. Write a program to find **third largest element**.

58. Write a program for **three great candidates**.

59. Write a program to **move all zeroes to end**.

60. Write a program for **Plus One problem**.

61. Write a program to **remove duplicates from sorted array**.

62. Write a program to find **array leaders**.

63. Write a program to **count distinct elements**.

64. Write a program for **union of arrays with duplicates**.

◆ PART J: Programs on List of Strings

65. Write a program to **swap elements in string list**.

66. Write a program to **convert list to string**.

67. Write a program to **reverse all strings in list**.

68. Write a program to find **character position of Kth word**.

69. Write a program to **extract words starting with K**.

70. Write a program to find **prefix frequency**.

71. Write a program to **split string list on K**.

72. Write a program to **split strings on prefix occurrence**.

73. Write a program to **remove words containing list characters**.

74. Write a program to **remove multiple empty spaces**.

75. Write a program to **add space between potential words**.

76. Write a program to **convert character matrix to string**.

77. Write a program to **filter strings using substring match**.

78. Write a program to **replace all characters except given one**.

79. Write a program to **convert string list to integers**.

80. Write a program to **convert string representation of list to list**.

◆ **PART K: Programs on List of Lists**

81. Write a program to **remove empty lists**.

82. Write a program to **convert list to list of dictionaries**.

83. Write a program to **convert list of lists to dictionary**.

84. Write a program to find **uncommon elements in list of lists**.

85. Write a program to **select random value from list of lists**.

86. Write a program to **reverse row sort**.

87. Write a program to **pair elements with rear element**.

◆ **PART L: Sublist & Advanced List Problems**

88. Write a program to **count strings with substring**.

89. Write a program to **remove values present in another list**.

90. Write a program to **print all sublists**.

91. Write a program to **reverse array in groups**.

92. Write a program to find **maximum product subarray**.

93. Write a program to **split array into three equal sum subarrays**.

94. Write a program to find **longest bitonic subsequence**.

95. Write a program to **count subarrays with K distinct elements**.

◆ **PART M: Advanced Coding Challenges on List**

96. Write a program to **count unique items**.

97. Write a program to **list product excluding duplicates**.

98. Write a program to **extract elements with frequency > K**.

99. Write a program to **check list elements in given range**.

100. Write a program to **check three consecutive common numbers**.

101. Write a program to **find strongest neighbour**.

102. Write a program to find **possible combinations from digits**.

103. Write a program to find **all combinations with given condition**.

104. Write a program to **get all unique combinations of two lists**.

105. Write a program to **remove all occurrences of element**.

106. Write a program to **remove consecutive K records**.

107. Write a program to **replace index elements with other list**.

108. Write a program to **retain records with N occurrences**.

109. Write a program to **sort list using lambda**.

110. Write a program to **create list using given range**.

111. Write a program to **check if object is list**.

112. Write a program to **break list into chunks of size N**.

113. Write a program to **get last N elements**.

◆ **PART N: Expert Level List Problems**

114. Write a program for **Not a Subset Sum**.

115. Write a program to find **minimum jumps**.

116. Write a program to find **smallest missing positive number**.

117. Write a program for **trapping rain water problem**.

118. Write a program for **alternate positive and negative**.

119. Write a program to find **max distance between same elements**.

120. Write a program to **transform and sort array**.

121. Write a program to **maximize number of 1's**.

122. Write a program for **product array puzzle**.