Intermediate to Advanced Python

- 31. Check if two lists have any common element
- 32. Print Fibonacci series up to N terms
- 33. Check for balanced parentheses in a string
- 34. Find the first repeated word in a string
- 35. Custom implementation of split()
- 36. Sort dictionary by value and key
- 37. Find longest substring without repeating characters
- 38. Check if a number is a perfect square
- 39. Calculate power(x, y) without using pow
- 40. Flatten a nested list
- 41. Caesar cipher encode and decode
- 42. Implement a basic calculator with + */
- 43. String compression (aabcc -> a2b1c2)
- 44. Find peak element in a list
- 45. Longest common prefix among strings
- 46. Matrix transpose
- 47. Print spiral order matrix
- 48. Find duplicates in O(n) time and O(1) space
- 49. Generate Pascals Triangle
- 50. Create a CLI contact book
- 51. To-Do App: Add/View/Delete tasks
- 52. Chat App CLI: Add messages, view conversation
- 53. Library Management System basic version
- 54. Expense Tracker CLI

- 55. Student Gradebook
- 56. Resume Parser (parse name, email, skills)
- 57. Create a simple eCommerce cart system
- 58. Create a blog post structure using dicts/lists
- 59. User authentication mockup (username + password)
- 60. OTP generator and validator