60 Advanced Python Practice Questions (Loops, Conditions, List, Tuple, Set, Dictionary)

1   Print numbers from 1–100 but replace multiples of 3 with 'Fizz' and 5 with 'Buzz'.
2   Find all numbers between 1–500 divisible by 7 but not by 5.
3   Check if a number is a perfect number.
4   Simulate ATM menu (withdraw, deposit, check balance) using loops and conditions.
5   Keep taking input until user enters a prime number.
6   Count how many numbers between 1–1000 are palindromes.
7   Find GCD of two numbers using a loop.
8   Create a number guessing game with limited attempts.
9   Print pattern pyramid of numbers.
10 Find LCM of two numbers.
11 Remove duplicates from a list without using set().
12 Find second largest number in a list.
13 Rotate a list to the right by k steps.
14 Split list into even and odd lists.
15 Merge two lists and sort without using sort().
16 Find common elements between two lists.
17 Count frequency of each element in list.
18 Find all pairs whose sum equals a target value.
19 Flatten a nested list.
20 Find difference between largest and smallest element.
21 Swap two tuples.
22 Count occurrences of element in tuple.
23 Convert tuple to list and remove duplicates.
24 Find index of an element in tuple.
25 Concatenate two tuples.
26 Find max and min in tuple.
27 Check if element exists in tuple.
28 Slice tuple to reverse it.
29 Unpack tuple into variables.
30 Create tuple from user input.
31 Find union, intersection, difference of two sets.
32 Remove common elements from two sets.
33 Check subset and superset.
34 Find symmetric difference.
35 Remove duplicates from list using set.
36 Add multiple elements to a set.
37 Pop random element from set and display it.
38 Compare two sets for equality.
39 Find elements present in one set but not other.
40 Create frozen set and test immutability.
41 Create dictionary from two lists (keys & values).
42 Count frequency of words in sentence.
43 Merge two dictionaries.
44 Find key with maximum value.
45 Invert dictionary (swap keys/values).
46 Sort dictionary by values.
47 Check if key exists.
48 Delete a key safely.
49 Sum all values in dictionary.
50 Create dictionary for squares of 1–20.
51 Store student marks and print topper.

52 Word guessing game using dictionary.
53 Inventory system using dictionary & loops.
54 Count character frequency using dict.
55 Group numbers into even/odd using dict.
56 Remove duplicate words using set.
57 Find first non-repeating character.
58 Simulate voting system and count votes.
59 Store employee data using tuple in list.
60 Mini contact book using dictionary.