🟢 Level 1 – Basics

1. Write a Python program to print your name and age.
2. Write a program to swap two variables without using a third variable.
3. Write a program to check whether a number is even or odd.
4. Write a program to find the largest of three numbers.
5. Write a program to check whether a number is positive, negative or zero.
6. Write a program to find the sum of first N natural numbers.
7. Write a program to check whether a year is a leap year or not.
8. Write a program to find factorial of a number.
9. Write a program to print multiplication table of a given number.
10. Write a program to reverse a number.

🟡 Level 2 – Loops

11. Write a program to print all even numbers from 1 to 100.
12. Write a program to count the number of digits in a number.
13. Write a program to find the sum of digits of a number.
14. Write a program to check whether a number is palindrome.
15. Write a program to print Fibonacci series up to N terms.
16. Write a program to check whether a number is Armstrong number.
17. Write a program to print prime numbers between 1 and 100.
18. Write a program to check whether a number is prime.
19. Write a program to print the following pattern:

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*
**
***
****
*****
```

20. Write a program to print numbers from 1 to 100 that are divisible by 3 and 5.

🔵 **Level 3 – Strings**

21. Write a program to count vowels and consonants in a string.
22. Write a program to check whether a string is palindrome.
23. Write a program to count number of words in a sentence.
24. Write a program to convert lowercase to uppercase without using inbuilt function.
25. Write a program to remove spaces from a string.
26. Write a program to count frequency of each character in a string.

🟣 **Level 4 – Lists & Tuples**

27. Write a program to find largest number in a list.
28. Write a program to remove duplicates from a list.
29. Write a program to find second largest number in a list.
30. Write a program to sort a list without using sort().
31. Write a program to merge two lists.
32. Write a program to find common elements in two lists.

🟠 **Level 5 – Dictionary & Functions**

33. Write a program to create a dictionary of student names and marks.
34. Write a function to check whether a number is prime.
35. Write a function to find factorial using recursion.
36. Write a function to calculate sum of elements in a list.
37. Write a program to count occurrence of each word in a sentence.
38. Write a program to find the key with maximum value in dictionary.

🔴 **Challenge Level**

39. Write a program to generate random password.
40. Write a program to create a simple calculator using functions.
41. Write a program to check whether two strings are anagrams.
42. Write a program to implement linear search.
43. Write a program to implement binary search.
44. Write a program to find GCD of two numbers.
45. Write a program to find LCM of two numbers.