

100 Python Programs using Loops, Conditions, Strings, Lists, Tuples, Sets, Dictionaries

1. Print numbers from 1 to 10 (Loops)
2. Sum of first N natural numbers (Loops)
3. Print multiplication table of a number (Loops)
4. Print even numbers between 1 and 100 (Loops)
5. Factorial of a number using loop (Loops)
6. Check if a number is prime (Loops)
7. Reverse a number using loop (Loops)
8. Fibonacci series up to N terms (Loops)
9. Find LCM of two numbers using loop (Loops)
10. Sum of digits of a number using loop (Loops)
11. Check if a number is positive, negative or zero (Conditions)
12. Check if a year is leap year (Conditions)
13. Find greatest of three numbers (Conditions)
14. Check if a number is even or odd (Conditions)
15. Grade a student based on marks (Conditions)
16. Check whether a character is vowel or consonant (Conditions)
17. Simple calculator using if-else (Conditions)
18. Check if triangle is valid (Conditions)
19. Check if a number is Armstrong (Conditions)
20. Check if a number is palindrome (Conditions)
21. Count vowels in a string (Strings)
22. Reverse a string (Strings)
23. Check if a string is palindrome (Strings)
24. Remove vowels from a string (Strings)
25. Count words in a string (Strings)
26. Capitalize first letter of each word (Strings)
27. Check if substring exists in string (Strings)
28. Replace all vowels with '*' (Strings)
29. Count frequency of characters in string (Strings)
30. Remove duplicate characters from string (Strings)
31. Sum of list elements (Lists)
32. Find max and min in a list (Lists)

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33. Remove duplicates from list (Lists)
34. Sort a list in ascending order (Lists)
35. Find second largest number in list (Lists)
36. Check if element exists in list (Lists)
37. Reverse a list (Lists)
38. Count even and odd numbers in list (Lists)
39. Merge two lists (Lists)
40. Remove specific element from list (Lists)
41. Create and print a tuple (Tuples)
42. Access elements of a tuple (Tuples)
43. Check if element exists in tuple (Tuples)
44. Find length of tuple (Tuples)
45. Convert tuple to list and vice versa (Tuples)
46. Concatenate two tuples (Tuples)
47. Repeat tuple elements (Tuples)
48. Find index of element in tuple (Tuples)
49. Count occurrences of an element in tuple (Tuples)
50. Unpack tuple into variables (Tuples)
51. Create a set and add elements (Sets)
52. Remove element from set (Sets)
53. Find union of two sets (Sets)
54. Find intersection of two sets (Sets)
55. Find difference between two sets (Sets)
56. Check if set is subset of another (Sets)
57. Check if set is disjoint (Sets)
58. Clear a set (Sets)
59. Copy a set (Sets)
60. Convert list to set (Sets)
61. Create and print a dictionary (Dictionaries)
62. Access and update dictionary values (Dictionaries)
63. Add new key-value pair (Dictionaries)
64. Delete a key from dictionary (Dictionaries)

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- 65. Check if key exists in dictionary (Dictionaries)**
- 66. Iterate through dictionary items (Dictionaries)**
- 67. Merge two dictionaries (Dictionaries)**
- 68. Count frequency of elements using dict (Dictionaries)**
- 69. Sort dictionary by values (Dictionaries)**
- 70. Nested dictionary access (Dictionaries)**