

Below are 50+ basic Python programming logic-building questions that cover topics such as variables, data types, operators, and conditional statements. These questions are designed to help you practise and reinforce your understanding of the basics of Python programming:

- Write a Python program to print "Hello, World!".
- Calculate the sum of two numbers.
- Find the product of two numbers.
- Convert temperature from Celsius to Fahrenheit.
- Compute the area of a circle given its radius.
- Swap the values of two variables without using a third variable.
- Check if a given number is even or odd.
- Determine if a year is a leap year or not.
- Convert a given number of days into months and days.
- Calculate the area of a rectangle.
- Check if a character is a vowel or consonant.
- Calculate the factorial of a given number.
- Find the largest among three numbers.
- Check if a number is positive, negative, or zero.
- Convert a lowercase letter to uppercase and vice versa.
- Calculate the sum of all even numbers between 1 and 100.
- Generate the Fibonacci sequence up to a given number of terms.
- Check if a number is a prime number.
- Print the multiplication table of a given number.
- Reverse a given number.
- Check if a string is a palindrome.
- Find the maximum element in a list.
- Remove duplicate elements from a list.
- Calculate the average of a list of numbers.
- Count the number of occurrences of a specific element in a list.
- Merge two lists and sort them.
- Check if a list is empty.
- Find the length of a string without using the len() function.
- Find the number of vowels and consonants in a string.
- Remove all whitespaces from a string.
- Check if two strings are anagrams.
- Extract the file extension from a given file name.
- Calculate the area and perimeter of a rectangle using a class.
- Implement a simple calculator using functions.
- Check if a given year is a century year (ending with 00).
- Calculate the square root of a number using the math module.
- Count the number of digits in a given number.
- Find the smallest and largest elements in a list.
- Replace all occurrences of a specific character in a string.
- Check if a list is a subset of another list.
- Convert a list of integers to a comma-separated string.
- Generate a random password of a given length.
- Calculate the power of a number using a loop.
- Convert a decimal number to binary and vice versa.

- Reverse the order of words in a sentence.
- Remove the first and last character from a string.
- Check if a string contains only digits.
- Find the second largest element in a list.
- Calculate the sum of digits in a given number.
- Generate a pattern of stars using nested loops.

Happy Coding

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