

Python Loop Practice Questions (For, While, and Do-While)

For Loop Exercises:

1. Write a Python program that prints all numbers from 1 to 50 using a for loop.
2. Write a Python program that takes a list of numbers and uses a for loop to print only the even numbers.
3. Create a for loop to iterate through a string and count the number of vowels in the string.
4. Write a Python program that uses a for loop to calculate the factorial of a number.
5. Using a for loop, write a Python program that prints the multiplication table of 7 up to 10.
6. Create a Python program that prints the first 10 numbers of the Fibonacci sequence using a for loop.
7. Write a program that sums all the values in a list using a for loop.
8. Write a Python program that prints all the elements of a nested list using a for loop.

While Loop Exercises:

9. Write a Python program that prints all numbers from 1 to 100 using a while loop.
10. Write a while loop that asks the user for input and continues to prompt until they type 'exit'.
11. Create a Python program that finds the sum of all numbers from 1 to a user-defined number using a while loop.
12. Write a Python program that uses a while loop to reverse a given number.
13. Write a Python program that uses a while loop to check whether a number is a palindrome.
14. Simulate a do-while loop in Python to keep asking the user for a password until the correct one is entered.
15. Write a Python program that uses a while loop to find the greatest common divisor (GCD) of two numbers.

Simulating Do-While Loop in Python:

16. Simulate a do-while loop that keeps adding numbers to a sum until a user enters a number greater than 100.

17. Simulate a do-while loop to prompt the user for a number and keep multiplying it by 2 until the number becomes greater than 50.
18. Write a program that continues to ask the user to guess a number (predefined) until they get it right, simulating a do-while loop.