Python Loop & Conditional Practice Questions

Basic Level

1. Check whether a number is positive, negative, or zero.
2. Find whether a number is even or odd.
3. Print numbers from 1 to 10 using a loop.
4. Find the sum of the first N natural numbers.
5. Find the factorial of a number using a loop.
6. Print the multiplication table of a given number.
7. Count the number of digits in a number.
8. Reverse a number using a loop.
9. Find the sum of digits of a number.
10. Check whether a year is a leap year.

Intermediate Level

11. Print Fibonacci series up to N terms.
12. Check whether a number is prime.
13. Print all prime numbers between 1 and N.
14. Check whether a number is a palindrome.
15. Check whether a number is an Armstrong number.
16. Find the largest of three numbers using if-else.
17. Print all even numbers between 1 and N.
18. Print all odd numbers between 1 and N.
19. Find the power of a number without using the ** operator.
20. Print a right-angled triangle star pattern.

Advanced Level

21. Find all Armstrong numbers between 1 and 1000.
22. Find all palindrome numbers between 1 and 500.
23. Find the sum of squares of digits of a number.
24. Check whether a number is a Strong number (sum of factorials of digits = number).
25. Check whether a number is a Perfect number (sum of proper divisors = number).
26. Print Pascal's triangle without using lists (nested loops only).
27. Print Floyd's triangle pattern with numbers.
28. Check whether a number is a Harshad number (divisible by sum of its digits).
29. Check whether a number is a Happy number (sum of squares of digits repeatedly becomes 1).
30. Find HCF and LCM of two numbers using loops.