# Python Number Programs List

## Basic Number Programs

1. Check if a number is Even or Odd
2. Check if a number is Positive, Negative, or Zero
3. Sum of digits of a number
4. Reverse a number
5. Count digits in a number
6. Check if a number is a Palindrome
7. Check if a number is an Armstrong Number
8. Check if a number is a Strong Number
9. Check if a number is a Perfect Number
10. Check if a number is a Narcissistic Number (generalized Armstrong)
11. Check if a number is a Harshad Number
12. Check if a number is a Spy Number
13. Check if a number is a Neon Number
14. Check if a number is a Duck Number
15. Check if a number is an Automorphic Number
16. Check if a number is a Sunny Number
17. Check if a number is a Buzz Number
18. Check if a number is a Disarium Number
19. Check if a number is a Happy Number
20. Check if a number is a Prime Number

## Series & Sequence Programs

21. Fibonacci Series (up to N terms)
22. Factorial of a number
23. Sum of Natural Numbers up to N
24. Sum of Even/Odd numbers in range
25. Prime numbers in a given range
26. Armstrong numbers in a range
27. Palindrome numbers in a range
28. Strong numbers in a range
29. Perfect numbers in a range

## Advanced Logic / Special Numbers

30. Krishnamurthy Number (same as Strong)
31. Magic Number (sum of digits recursively gives 1)
32. Smith Number
33. Kaprekar Number
34. Twin Primes
35. Coprime Numbers
36. Emirp Number
37. Lychrel Number (check)

## Pattern / Mathematical Programs

38. LCM & GCD (HCF) of two numbers

39. Power of a number (without using **)
40. Check leap year
41. Check factorial trailing zeros
42. Sum of prime digits
43. Binary to Decimal / Decimal to Binary conversion
44. Octal / Hexadecimal conversions