100 Basic Python Problems on Operators and Conditionals

- 1. Write a program to add two numbers.
- 2. Write a program to subtract two numbers.
- 3. Write a program to multiply two numbers.
- 4. Write a program to divide two numbers.
- 5. Write a program to find the remainder when one number is divided by another.
- 6. Write a program to find the power of a number.
- 7. Write a program to find the square root of a number.
- 8. Write a program to check if a number is even or odd.
- 9. Write a program to check if a number is positive, negative, or zero.
- 10. Write a program to find the largest of three numbers.
- 11. Write a program to find the smallest of three numbers.
- 12. Write a program to check if a number is divisible by 5 and 11.
- 13. Write a program to check if a year is a leap year.
- 14. Write a program to check if a character is a vowel or consonant.
- 15. Write a program to check if a character is an alphabet, digit, or special character.
- 16. Write a program to find the largest of two numbers.
- 17. Write a program to find the smallest of two numbers.
- 18. Write a program to check if a number is a palindrome.
- 19. Write a program to find the factorial of a number.
- 20. Write a program to find the sum of the digits of a number.
- 21. Write a program to find the reverse of a number.
- 22. Write a program to check if a number is an Armstrong number.
- 23. Write a program to find the GCD of two numbers.
- 24. Write a program to find the LCM of two numbers.

- 25. Write a program to check if a number is prime.
- 26. Write a program to print all prime numbers between two given numbers.
- 27. Write a program to print the Fibonacci series up to n terms.
- 28. Write a program to find the sum of the first n natural numbers.
- 29. Write a program to find the sum of the first n even numbers.
- 30. Write a program to find the sum of the first n odd numbers.
- 31. Write a program to find the largest digit in a number.
- 32. Write a program to find the smallest digit in a number.
- 33. Write a program to find the average of n numbers.
- 34. Write a program to find the sum of n numbers.
- 35. Write a program to find the difference between the largest and smallest number in a list.
- 36. Write a program to check if a number is a perfect number.
- 37. Write a program to find the HCF of two numbers.
- 38. Write a program to check if a number is a strong number.
- 39. Write a program to find the sum of the series 1 + 1/2 + 1/3 + ... + 1/n.
- 40. Write a program to find the sum of the series $1^2 + 2^2 + 3^2 + ... + n^2$.
- 41. Write a program to find the sum of the series $1^3 + 2^3 + 3^3 + ... + n^3$.
- 42. Write a program to find the sum of the series $1 + 2 + 4 + 8 + ... + 2^n$.
- 43. Write a program to print the multiplication table of a given number.
- 44. Write a program to print all even numbers between 1 and 100.
- 45. Write a program to print all odd numbers between 1 and 100.
- 46. Write a program to find the sum of all even numbers between 1 and 100.
- 47. Write a program to find the sum of all odd numbers between 1 and 100.
- 48. Write a program to print the factors of a given number.
- 49. Write a program to check if a number is a composite number.
- 50. Write a program to find the n-th Fibonacci number.

- 51. Write a program to find the sum of the squares of the digits of a number.
- 52. Write a program to find the sum of the cubes of the digits of a number.
- 53. Write a program to check if a number is a palindrome without converting it to a string.
- 54. Write a program to find the sum of the first n Fibonacci numbers.
- 55. Write a program to find the product of the first n natural numbers.
- 56. Write a program to find the product of the first n even numbers.
- 57. Write a program to find the product of the first n odd numbers.
- 58. Write a program to find the sum of the first n prime numbers.
- 59. Write a program to find the product of the digits of a number.
- 60. Write a program to find the difference between the sum of the squares and the square of the sum of the
- 61. Write a program to check if a number is an automorphic number.
- 62. Write a program to check if a number is a Harshad number.
- 63. Write a program to find the sum of the first n terms of the series 1 + 1/2 + 1/4 + 1/8 + ...
- 64. Write a program to find the sum of the first n terms of the series 1 1/2 + 1/3 1/4 +
- 65. Write a program to find the sum of the first n terms of the series 1 + 1/2! + 1/3! +
- 66. Write a program to find the sum of the first n terms of the series $1^2 + 2^2 + 3^2 + ...$
- 67. Write a program to find the sum of the first n terms of the series 1^3 + 2^3 + 3^3 +
- 68. Write a program to print all prime numbers less than n.
- 69. Write a program to print all composite numbers less than n.
- 70. Write a program to find the sum of all prime numbers less than n.
- 71. Write a program to find the sum of all composite numbers less than n.
- 72. Write a program to find the product of all prime numbers less than n.
- 73. Write a program to find the product of all composite numbers less than n.
- 74. Write a program to check if a number is a happy number.
- 75. Write a program to check if a number is a Kaprekar number.
- 76. Write a program to check if a number is a Keith number.

- 77. Write a program to check if a number is a Smith number.
- 78. Write a program to find the sum of the proper divisors of a number.
- 79. Write a program to check if a number is a deficient number.
- 80. Write a program to check if a number is an abundant number.
- 81. Write a program to find the n-th triangular number.
- 82. Write a program to find the n-th pentagonal number.
- 83. Write a program to find the n-th hexagonal number.
- 84. Write a program to check if a number is a triangular number.
- 85. Write a program to check if a number is a pentagonal number.
- 86. Write a program to check if a number is a hexagonal number.
- 87. Write a program to find the sum of the digits of the n-th Fibonacci number.
- 88. Write a program to find the product of the digits of the n-th Fibonacci number.
- 89. Write a program to find the difference between the sum of the digits of the n-th Fibonacci number and t
- 90. Write a program to find the sum of the digits of the n-th triangular number.
- 91. Write a program to find the product of the digits of the n-th triangular number.
- 92. Write a program to check if the sum of the digits of a number is prime.
- 93. Write a program to check if the product of the digits of a number is prime.
- 94. Write a program to find the sum of the digits of the product of two numbers.
- 95. Write a program to find the product of the digits of the sum of two numbers.
- 96. Write a program to find the sum of the squares of the digits of the sum of two numbers.
- 97. Write a program to find the sum of the cubes of the digits of the sum of two numbers.
- 98. Write a program to find the product of the squares of the digits of the product of two numbers.
- 99. Write a program to find the product of the cubes of the digits of the product of two numbers.
- 100. Write a program to find the sum of the squares of the digits of the product of two numbers.