100 Python Programs using Operators and If-Else Only

1. Check if sum of two numbers is even or odd
2. Compare product of two numbers with a third number
3. Check if number is positive, negative or zero
4. Calculate absolute difference using if
5. Compare division and floor division results
6. Find largest of two numbers
7. Find smallest of three numbers
8. Check if one number is square of another
9. Check if a number is multiple of 3 or 5
10. Find maximum using only operators and if-else
11. Compare two numbers using all relational operators
12. Check if two strings are same (using ==)
13. Compare length of two strings without len()
14. Check if a number is within a range
15. Check if two variables point to same object (is)
16. Check if value is not equal to zero
17. Check if one number lies between two others
18. Validate if a number is a 3-digit number
19. Check if two numbers are equal
20. Check if first number is greater than sum of other two
21. Check if number is positive and even
22. Check if number is divisible by both 2 and 5
23. Check if number is divisible by 3 or 7
24. Validate if a number is between 10 and 99
25. Compare three numbers and print smallest
26. Use not to reverse a boolean condition
27. Check if number is not divisible by 2 and 3
28. Use multiple conditions to filter numbers
29. Check leap year (without using functions)
30. Validate two numbers are equal and positive
31. Bitwise AND of two numbers
32. Bitwise OR of two numbers

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33. Bitwise XOR of two numbers
34. Left shift a number and compare result
35. Right shift a number and check parity
36. Check if bit at position is set
37. Swap numbers using XOR
38. Bitwise NOT and check result sign
39. Validate bitwise result is even or odd
40. Use bit masking to isolate last 4 bits
41. Use += to add value and check range
42. Use *= to multiply and compare to threshold
43. Use -= to reduce and compare with another
44. Use %= to get remainder and check it
45. Chain assignment and evaluate equality
46. Compound assignment with logical condition
47. Use multiple assignments and compare variables
48. Simulate step-wise addition
49. Use //= for flooring
50. Use **= and validate exponent value
51. Check if character is in string
52. Check if character is not in string
53. Compare two strings using in
54. Use in to search in predefined values
55. Validate password contains @
56. Check if first character in vowels
57. Validate if number is in a list (hardcoded)
58. Check membership before performing operation
59. Use not in to reject invalid chars
60. Validate code contains a digit
61. Compare two variables using is
62. Check if variable is None
63. Compare integer objects using is not
64. Assign variable and check object identity

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65. Validate type identity using is

66. Use is to compare two lists (ref vs value)

67. Check identity of booleans

68. Check if two variables are not same object

69. Assign and compare identities

70. Validate if two strings are the same object

71. Check if number is prime (basic logic only)

72. Determine if triangle is valid with 3 sides

73. Use if-else to simulate calculator (basic ops)

74. Validate equation a^2 + b^2 = c^2

75. Solve quadratic discriminant condition

76. Compare two averages

77. Find grade based on marks

78. Check if number is perfect square

79. Check if sum of digits is even

80. Check for Armstrong number (3-digit, if only)

81. Check if char is upper or lower

82. Validate char is alphabet or digit

83. Compare two characters by ASCII

84. Check if first and last char of string are same

85. Validate input is vowel or consonant

86. Check if string contains both number and letter

87. Use if-else to toggle char case

88. Check if word is palindrome (basic way)

89. Use slicing with conditions (if simple enough)

90. Check if char is special character

91. Check if number is cube of another

92. Validate ticket eligibility by age

93. Find largest of four using if-else

94. Compare distance between 2D points

95. Use operator precedence to verify output

96. Validate login attempt using hardcoded values

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97. Apply discount if amount > 1000

98. Decide bonus based on performance (grade)

99. Check if two dates are equal

100. Simulate simple traffic light logic using input color