

PYTHON

Assignment

- Write a program that swaps two numbers a = 15 and b = 27 using bitwise
 XOR.
- 2. Perform bitwise NOT operation on a number n = 25. What is the result?
- Write a program that checks if a given number n = 16 is a power of 2 using bitwise operators.
- 4. Use bitwise operations to determine if the binary representation of a number n = 9 has an even or odd number of 1s.
- 5. Write a program to add two numbers a = 9 and b = 13 using bitwise operators.
- Create a program that checks if a number n = 18 is divisible by both 2 and
 3 using logical operators.
- 7. Write a program that checks if a string s = "python" starts with the letter 'p' and ends with the letter 'n' using logical operators.
- 8. Use logical operators to write a program that checks if a number x = 25 is either greater than 20 or divisible by 5.
- 9. Create a program that checks if a number n = 42 is both even and greater than 40 using logical operators.
- 10. Write a program to check if a student's score is within a passing range (between 50 and 100) using logical operators.
- 11. Write a program that checks if a year is a leap year using a ternary operator.



- 12.Use a ternary operator to determine the largest of three numbers a = 12, b = 9, and c = 17.
- 13.Write a program that assigns the value True to a variable is_adult if a person's age is 18 or older, otherwise assigns False, using a ternary operator.
- 14.Use a ternary operator to check if a given character ch = 'A' is uppercase or lowercase.
- 15. Write a program that checks if a number x = 34 is divisible by 10 using a ternary operator and prints "Yes" or "No".