1 Write a program that takes two numbers as input and prints the result of addition, subtraction, multiplication, division, and modulus.

Example Input:

a = 10

b = 3

Expected Output:

Addition: 13

Subtraction: 7

Multiplication: 30

Division: 3.333...

Modulus: 1

2 Even or Odd using Modulus Operator

Check whether a given number is even or odd using the modulus operator.

Example Input: num = 17

Output: Odd

3 Logical Operators – Voting Eligibility

Write a program that checks if a person is eligible to vote (age ≥ 18 and citizen = True).

Input: age = 20, citizen = True

Output: Eligible to vote

4 Bitwise AND/OR/XOR

Given two integers, print the result of bitwise AND, OR, and XOR.

Input: a = 5, b = 3

Output:

AND: 1

OR: 7

XOR: 6