# Python Operators - Programmatic Interview Questions

1. Write a program to take two numbers from the user and print:
   - Sum
   - Difference
   - Product
   - Quotient (normal and floor division)
   - Remainder

2. Write a program that calculates the area and perimeter of a rectangle using assignment operators (+

3. Write a program that checks whether a number entered by the user is:
   - Positive
   - Negative
   - Zero

4. Write a program to check if a person is eligible to vote:
   - Age must be 18 or above
   - Must be a citizen of a certain country
   (Use logical operators and, or, not)

5. Write a program to swap two numbers without using a third variable (use bitwise XOR).

6. Write a program that takes a number and prints:
   - Its binary form
   - Left shift by 2
   - Right shift by 1

7. Write a program to check whether a given word exists in a predefined list of words.

8. Write a program to check whether two lists are:
   - Equal in values (==)
   - The same object in memory (is)

9. Write a program that takes three numbers and prints the largest one using only conditional operators

10. Write a program to evaluate the following expression using variables for each step:
    5 + 3 * 2 ** 2 // 2

11. Write a program to check if a number is divisible by both 3 and 5 using a single if statement.

12. Write a program that reverses a number without using string conversion (use operators %, //).