

Basic Questions

1. Check Leap Year

- Write a program to check if a given year is a leap year or not.
 - **Input:** 2024
 - **Output:** Leap Year

2. Find Largest of Three Numbers

- Take three numbers as input and find the largest among them.
 - **Input:** 5, 12, 9
 - **Output:** Largest number is 12

3. Even or Odd Without Using Modulus (%)

- Write a program to check if a number is even or odd **without using** the modulus operator (%).
 - **Input:** 17
 - **Output:** Odd

4. Grade Calculator

- Given marks (0-100), display the corresponding grade:
 1. 90-100: A
 2. 80-89: B
 3. 70-79: C
 4. 60-69: D
 5. Below 60: Fail
 - **Input:** 85
 - **Output:** Grade: B

5. Positive, Negative, or Zero

- Check if a given number is positive, negative, or zero.
 - **Input:** -10
 - **Output:** Negative

Intermediate Questions

6. Vowel or Consonant (Switch Case)

- Take a single character as input and determine if it is a vowel (a, e, i, o, u) or a consonant using switch-case.

1. **Input:** 'o'

2. **Output:** Vowel

7. Simple Calculator (Switch Case)

- Take two numbers and an operator (+, -, *, /) as input and perform the respective operation using switch-case.

1. **Input:** 8, 4, '/'

2. **Output:** 2.0

8. Triangle Type Checker

- Given three sides of a triangle, determine whether it is **Equilateral, Isosceles, or Scalene**.

1. **Input:** 5, 5, 8

2. **Output:** Isosceles Triangle

Advanced Questions

9. Number to Word (0-9) using Switch Case

- Take a single-digit number (0-9) as input and print its English word (e.g., 0 -> Zero, 1 -> One).

1. **Input:** 5

2. **Output:** Five

10. Ternary Operator Challenge

- Take two numbers as input and find the **maximum** using the **ternary operator**.
 - **Input:** 25, 30
 - **Output:** 30 is greater