

# Conditional Logic Challenges: JavaScript

## 1. Age Classifier

Write a program that takes a person's age as input and prints:

- "Child" if age < 13
- "Teenager" if age is between 13 and 19
- "Adult" if age is 20 or older

## 2. Even or Odd Checker

Write a program that takes a number and prints whether it's even or odd.

## 3. Largest of Two Numbers

Write a program that takes two numbers and prints the larger one. If they're equal, print "Both are equal".

## 4. Day of Week

Write a program that takes a number (1-7) and prints the corresponding day of the week (1=Monday, 7=Sunday). For any other number, print "Invalid day".

## 5. Grade Calculator

Write a program that takes a score (0-100) and prints the grade:

- A: 90-100
- B: 80-89
- C: 70-79
- D: 60-69
- F: below 60

## 6. Leap Year Checker

Write a program that takes a year and determines if it's a leap year.

A year is a leap year if:

- It's divisible by 4
- But not divisible by 100, unless also divisible by 400

## 7. Traffic Light System

Write a program that takes a color ("red", "yellow", "green") and prints the corresponding action:

- "red" → "Stop"
  - "yellow" → "Get Ready"
  - "green" → "Go"
- For any other color, print "Invalid color"

8. **Positive, Negative, or Zero**

Write a program that takes a number and prints whether it's positive, negative, or zero.

9. **Vowel Checker**

Write a program that takes a single character and determines if it's a vowel (a, e, i, o, u). Consider both uppercase and lowercase.

10. **Simple Calculator**

Write a program that takes two numbers and an operator (+, -, \*, /) and performs the calculation. Handle division by zero by printing "Cannot divide by zero".