

20 Real-World Problems Using Conditions and Loops in HTML & JavaScript

Basic Problems:

- Temperature Converter - Convert Celsius to Fahrenheit and categorize the weather.
- Even or Odd Checker - Determine if a number is even or odd.
- Grade Calculator - Assign grades based on marks.
- Countdown Timer - Count down from a given number.
- Number Range Validator - Check if a number is between 1 and 100.

Intermediate Problems:

- Prime Number Checker - Verify if a number is prime.
- Multiplication Table Generator - Generate a table for a given number.
- Password Strength Checker - Validate if a password meets security standards.
- Palindrome Checker - Check if a word reads the same forward and backward.
- Simple Voting Eligibility System - Determine if a person is eligible to vote.

Advanced Problems:

- ATM-like Cash Withdrawal System - Simulate cash withdrawal with note distribution.
- FizzBuzz Program - Print Fizz, Buzz, or FizzBuzz for multiples of 3, 5, or both.
- Factorial Calculator - Compute the factorial of a number.
- Reverse a String - Reverse a user-input string.
- Dynamic To-Do List - Allow users to add and display tasks dynamically.

Real-World Use Cases:

- Age Calculator - Compute age based on birth year.
- E-commerce Discount System - Apply discounts based on purchase amount.
- Stopwatch Application - Create a basic stopwatch with controls.
- Loan Eligibility Checker - Check eligibility based on salary and credit score.
- Dynamic Quiz with Score Calculation - Conduct a quiz and compute the final score.