

CONDITIONAL PROBLEMS

Easy Conditional Problems

Check if number is positive, negative, or zero

Write a function `checkSign(n)` that returns sign of number

Input: -5

Output: "negative"

1.

Find grade based on marks

Write a function `getGrade(marks)` that returns grade (A/B/C/D/F)

Input: 85

Output: "A"

2.

Check if year is leap year

Write a function `isLeapYear(year)` that checks if year is leap year

Input: 2024

Output: true

3.

Find largest of three numbers

Write a function `largest(a, b, c)` that finds largest of three numbers

Input: 10, 25, 15

Output: 25

4.

Check voting eligibility

Write a function `canVote(age)` that checks if person can vote

Input: 20

Output: true

5.

Determine triangle type

Write a function `triangleType(a, b, c)` that determines triangle type

Input: 3, 3, 3
Output: "equilateral"

6.

Check if number is divisible by 5

Write a function `divisibleBy5(n)` that checks divisibility by 5
Input: 25
Output: true

7.

Simple calculator

Write a function `calculate(a, b, op)` that performs basic operations
Input: 10, 5, "+"
Output: 15

8.

Check if character is vowel

Write a function `isVowel(char)` that checks if character is vowel
Input: "a"
Output: true

9.

Determine day type

Write a function `dayType(day)` that returns weekend/weekday
Input: "Saturday"
Output: "weekend"

10.

Medium Conditional Problems

Complex grade calculator

Write a function `complexGrade(marks, attendance)` that considers both factors
Input: 85, 90
Output: "A"

1.

Quadratic equation solver

Write a function solveQuadratic(a, b, c) that solves quadratic equation

Input: 1, -5, 6

Output: [2, 3]

2.

Traffic light simulator

Write a function trafficLight(color, timer) that simulates traffic light

Input: "red", 30

Output: "stop for 30 seconds"

3.

Bank loan eligibility

Write a function loanEligible(income, credit, age) that checks loan eligibility

Input: 50000, 750, 30

Output: true

4.

Tax calculator

Write a function calculateTax(income) that calculates tax based on slabs

Input: 75000

Output: 7500

5.

Password strength checker

Write a function passwordStrength(password) that checks password strength

Input: "MyPass123!"

Output: "strong"

6.

Shipping cost calculator

Write a function shippingCost(weight, distance, express) that calculates cost

Input: 5, 100, true

Output: 25

7.

Season detector

Write a function `getSeason(month, day)` that determines season

Input: 12, 25

Output: "winter"

8.

Employee bonus calculator

Write a function `calculateBonus(salary, performance, years)` that calculates bonus

Input: 60000, "excellent", 5

Output: 12000

9.

Electricity bill calculator

Write a function `electricityBill(units)` that calculates bill with different rates

Input: 350

Output: 1750

10.