50 QUESTIONS ON CONDTIONAL STATEMENT

Easy Level (1-20)

1. Write a program to check if a number is even or odd.
2. Check if a person is eligible to vote (age 18 or above).
3. Determine if a given year is a leap year or not.
4. Check if a number is positive, negative, or zero.
5. Write a program to find the greatest of two numbers.
6. Determine if a number is a multiple of 5.
7. Check if a character is a vowel or consonant.
8. Determine if a person is eligible for a senior citizen discount (age 60+).
9. Write a program to check if a number is a single-digit number.
10. Print "Good Morning" if the time is before 12 PM, otherwise print "Good Afternoon".
11. Check if a string is empty or not.
12. Verify if a number is a perfect square.
13. Determine if a number is between 1 and 100.
14. Print "Weekend" if the day is Saturday or Sunday; otherwise, print "Weekday".
15. Find if a given number is exactly divisible by both 3 and 7.
16. Check if the sum of two numbers is greater than 100.
17. Write a program to find the minimum of two numbers.
18. Check if a number is divisible by 2 but not by 3.
19. Determine if a given alphabet is uppercase or lowercase.
20. Check if a triangle is valid given three side lengths (sum of any two sides must be greater than the third).

Medium Level (21-40)

21. Find the largest of three numbers.
22. Determine if a number is a prime number.
23. Check if a person is eligible for a driving license (age 18+, passed the driving test).
24. Write a program to determine whether a triangle is equilateral, isosceles, or scalene.
25. Determine if a student passes or fails based on a passing mark of 40.
26. Check if a number is a palindrome (same forward and backward).
27. Calculate the electricity bill based on consumption: ₹5 per unit for the first 100 units, ₹10 per unit for the next 200, ₹15 per unit for anything above 300 units.
28. Find the grade of a student based on marks (90+ A, 80-89 B, etc.).
29. Determine if a given date is valid (considering month length and leap year for February).
30. Check if a given time is AM or PM.
31. Check if a number is an Armstrong number (sum of its digits raised to the power of the number of digits equals the number).
32. Determine the type of quadrilateral based on given angles and sides.
33. Implement a basic calculator that takes two numbers and an operation (+, -, *, /).
34. Check if a bank account balance is sufficient for withdrawal.

35. Implement a simple temperature converter (Celsius to Fahrenheit and vice versa).
36. Write a program to check if a number lies within a specific range (e.g., between 50 and 100).
37. Determine if a given year is a century year (ends in 00).
38. Check if a given integer is a power of 2.
39. Determine whether a given month has 31, 30, or 28 days.
40. Validate a password (must be at least 8 characters long and contain both numbers and letters).

Hard Level (41-50)

41. Implement a ticket pricing system where children under 5 enter for free, seniors (60+) get a 50% discount, and others pay ₹100.
42. Check if three numbers can form a Pythagorean triplet.
43. Write a program that converts a Roman numeral to an integer.
44. Determine the zodiac sign based on a given birth date.
45. Check if a number is a Harshad number (sum of digits divides the number).
46. Validate an email format (must contain '@' and end with a valid domain like '.com' or '.org').
47. Check if a given chess move is valid (e.g., a knight moves in an "L" shape).
48. Implement a loan eligibility checker based on income, credit score, and employment status.
49. Implement a rock-paper-scissors game using conditional statements.
50. Write a program to find the day of the week for a given date (without using built-in functions).
