1. **Write a program that checks if a number entered by the user is positive. If it is, print "The number is positive.**
2. **Write a program that checks if a number entered by the user is even or odd. Print "Even" if the number is even and "Odd" if the number is odd.**
3. **Write a program that takes a number as input and prints "Negative" if it is less than 0, "Zero" if it is 0, and "Positive" if it is greater than 0.**
4. **Write a program that takes three numbers as input and prints the largest of the three. Use nested if statements to determine the largest number.**
5. **Write a program that takes a grade as input (A, B, C, D, F) and prints a message: "Excellent" for A, "Good" for B, "Average" for C, "Poor" for D, and "Fail" for F. Use a switch statement to handle this.**
6. **Write a program that prints the first 10 natural numbers using a for loop.**
7. **Write a program that prints numbers from 1 to 5 using a do-while loop.**
8. **Write a program that prints the multiplication table of 5 using a while loop.**
9. **Given an object {name: "John", age: 25, city: "New York"}, write a program that uses a for-in loop to print all the properties and their values.**
10. **Write a program that checks if a number entered by the user is greater than 100. If it is, print "The number is large.**
11. **Write a program that checks if a person is eligible to vote. If the person's age is 18 or older, print "Eligible to vote." Otherwise, print "Not eligible to vote."**
12. **Write a program that takes a temperature value and prints "Cold" if the temperature is below 0, "Warm" if the temperature is between 0 and 25, and "Hot" if the temperature is above 25.**
13. **Write a program that takes a number as input and checks if it is divisible by 2 and 3. If it is, print "Divisible by both 2 and 3." Otherwise, check if it is divisible by only 2 or only 3 and print the appropriate message.**
14. **Write a program that takes a day of the week as input (1 for Monday, 2 for Tuesday, etc.) and prints the name of the day using a switch statement.**
15. **Write a program that calculates the factorial of a number entered by the user using a for loop.**
16. **Write a program that asks the user to guess a predefined number. Keep asking until the user guesses the number correctly, and then print "Correct!" Use a do-while loop to implement this.**
17. **Write a program that takes a number as input and prints all the even numbers from 1 to that number using a while loop.**
18. **Given an object {title: "Book", author: "John Doe", year: 2020}, write a program that uses a for-in loop to print the keys and values in the format "key: value".**
19. **Write a program that checks if a character entered by the user is a vowel. If it is, print "The character is a vowel.**
20. **Write a program that checks if a string entered by the user is empty. If it is, print "The string is empty." Otherwise, print "The string is not empty.**
21. **Write a program that takes a person's age as input and prints "Child" if the age is less than 13, "Teenager" if the age is between 13 and 19, "Adult" if the age is 20 or older.**
22. **Write a program that takes a number as input and prints whether it is positive, negative, or zero. Use nested if statements to check these conditions.**
23. **Write a program that takes a month number (1 for January, 2 for February, etc.) and prints the number of days in that month. Use a switch statement to handle this, considering leap years for February.**
24. **Write a program that prints the Fibonacci series up to a given number using a for loop.**
25. **Write a program that repeatedly asks the user to enter a number until they enter a negative number. Then print the sum of all entered numbers (excluding the negative number) using a do-while loop.**
26. **Write a program that calculates the sum of all numbers from 1 to a given number using a while loop.**
27. **Given an object {product: "Laptop", price: 999.99, quantity: 10}, write a program that uses a for-in loop to print each property and its value in the format "property: value".**
28. **Write a program that checks if a user-provided string contains the letter "a". If it does, print "The string contains 'a'.**
29. **Write a program that checks if a given year is a leap year. Print "Leap Year" if it is, otherwise print "Not a Leap Year.**
30. **Write a program that takes a number grade (0-100) and prints the corresponding letter grade: "A" for 90-100, "B" for 80-89, "C" for 70-79, "D" for 60-69, and "F" for below 60.**
31. **Write a program that checks if a user-provided number is divisible by 4 and 6. Print appropriate messages if the number is divisible by only one, both, or neither.**
32. **Write a program that takes an integer representing a month (1 for January, 2 for February, etc.) and prints the season ("Winter", "Spring", "Summer", "Autumn") for that month using a switch statement.**
33. **Write a program that prints the squares of the first 15 natural numbers using a for loop.**
34. **Write a program that keeps asking the user for a password until the correct password "letmein" is entered. Once the correct password is entered, print "Access Granted."**
35. **Write a program that takes a number and prints all the prime numbers less than that number using a while loop.**
36. **Given an object {movie: "Inception", director: "Christopher Nolan", year: 2010}, write a program that uses a for-in loop to list all the properties and their values in the format "Property: Value".**
37. **Write a program that checks if a user-provided string has a length greater than 5. If it does, print "The string is long.**
38. **Write a program that checks if a given number is a multiple of 10. Print "Multiple of 10" if it is, otherwise print "Not a multiple of 10.**
39. **Write a program that takes a temperature in Celsius and prints "Freezing" if it is below 0, "Cold" if it is between 0 and 10, "Warm" if it is between 10 and 25, and "Hot" if it is above 25.**
40. **Write a program that determines if a character entered by the user is a digit, an uppercase letter, or a lowercase letter. Use nested if statements to check these conditions.**
41. **Write a program that takes a number from 1 to 5 and prints the corresponding word ("One" for 1, "Two" for 2, etc.) using a switch statement.**
42. **Write a program that calculates and prints the sum of the first 50 even numbers using a for loop.**
43. **Write a program that asks the user to enter numbers until the sum of the entered numbers exceeds 100. Print the total sum once it exceeds 100 using a do-while loop.**
44. **Write a program that takes a number as input and prints the factorial of that number using a while loop.**
45. **Given an object {make: "Toyota", model: "Corolla", year: 2021}, write a program that uses a for-in loop to print each property and its value in the format "Property: Value".**