1. Write a program to check if a number is even or odd.
2. Create a program that determines whether a given year is a leap year or not.
3. Write a program to find the largest among three numbers entered by the user.
4. Create a program that checks whether a character entered by the user is a vowel or a consonant.
5. Write a program to determine the eligibility of a person to vote based on their age.
6. Create a program that calculates the total price of items purchased, applying a discount if the total exceeds a certain amount.
7. Write a program that determines whether a given number is positive, negative, or zero.
8. Create a program that calculates the area of a triangle based on its sides.
9. Write a program that determines the grade of a student based on their percentage marks.
10. Create a program that checks if a given year is a century year or not.
11. Write a program to find the roots of a quadratic equation.
12. Create a program that checks if a given string is a palindrome.
13. Write a program to determine the eligibility of a person for a driving license based on their age and whether they have passed the driving test.
14. Create a program that determines whether a given number is a prime number or not.
15. Write a program to calculate the electricity bill based on the units consumed.
16. Create a program that sorts three numbers in ascending order.
17. Write a program to determine whether a given number is a perfect square.
18. Create a program that checks if a given year is a leap year using nested if-else statements.
19. Write a program to find the maximum and minimum of three numbers using conditional statements.
20. Create a program that determines whether a triangle is equilateral, isosceles, or scalene based on its side lengths.
21. Write a program to determine the largest among four numbers using nested if-else statements.
22. Create a program that checks if a given number is divisible by both 3 and 5.
23. Write a program to determine the type of angle (acute, obtuse, or right) based on its measure.
24. Create a program that converts a given temperature in Celsius to Fahrenheit or vice versa based on user input.
25. Write a program to check if a given year is a leap year using a ternary operator.
26. Create a program that determines whether a given number is a Fibonacci number or not.
27. Write a program that checks if a given number is a perfect number.
28. Create a program that calculates the discount percentage based on the purchase amount.
29. Write a program to determine the number of days in a given month.
30. Create a program that calculates the area and perimeter of a rectangle based on its dimensions.
31. Write a program to check if a given number is a palindrome or not.
32. Create a program that determines the day of the week based on a given date.

33. Write a program to calculate the compound interest based on principal, rate, and time.
34. Create a program that checks if a given year is a leap year without using any conditional statements.
35. Write a program to determine if a given string is a valid email address.
36. Create a program that calculates the BMI (Body Mass Index) based on weight and height inputs.
37. Write a program to determine the season (spring, summer, autumn, winter) based on a given month.
38. Create a program that determines the largest among n numbers entered by the user.
39. Write a program to check if a given number is a strong number or not.
40. Create a program that checks if a given character is an alphabet or not.
41. Write a program to find the factorial of a number.
42. Create a program that calculates the roots of a quadratic equation using the discriminant.
43. Write a program to determine the age category of a person (child, teenager, adult, senior) based on their age.
44. Create a program that checks if a given number is a perfect cube.
45. Write a program to determine if a given string is a valid password based on certain criteria (length, characters used, etc.).
46. Create a program that determines the type of triangle (equilateral, isosceles, scalene) based on side lengths.
47. Write a program to calculate the sum of digits of a given number.
48. Create a program that determines if a given number is an Armstrong number.
49. Write a program to check if a given year is a leap year using logical operators.
50. Create a program that checks if a given number is a strong palindrome.