

## Assignment - 2

Write a program to print the numbers from 1 to 50 using a for loop.

Write a program that takes an integer as input and checks if it is even or odd.

Create a program that prints a right-angled triangle pattern of \* with a height of 5.

Write a program that takes a number (1-7) as input and prints the corresponding day of the week using a switch statement.

Write a program to calculate the sum of all numbers from 1 to n using a while loop.

Write a program to check if a given number is prime or not using a for loop and if conditions.

Write a program to reverse a given number (e.g., input: 1234, output: 4321) using a while loop.

Write a program that takes a number as input and prints its multiplication table using a for loop.

Write a program to calculate the factorial of a given number using a for loop.

Generate the first n numbers of the Fibonacci sequence using a for loop.

Write a program to input n numbers into an array and display them.

Write a program to find the sum of all elements in a one-dimensional array.

Write a program to find the largest element in an array.

Implement a program to search for a specific element in an array using linear search.

Write a program to count the number of even and odd numbers in a one-dimensional array.

Write a program to input a 3x3 matrix and display it.

Write a program to add two 3x3 matrices.

Write a program to calculate and display the transpose of a 2x2 matrix.

Write a program to calculate the sum of each row and each column in a 2x3 matrix.

Write a program to calculate the sum of the diagonal elements of a square matrix.