1. String Manipulation (std::string)

Write a C++ program that:

- Takes a full name as input.

- Displays the number of characters.

- Finds the position of the first space.

- Replaces the last name with “XYZ”.

2. Array Operations

Write a C++ program to:

- Declare an array of 10 integers.

- Take input from the user.

- Sort the array using sort() from <algorithm>.

- Display the sorted array.

3. 2D Array - Matrix Addition

Write a C++ program that:

- Takes two 2x2 matrices as input.

- Adds the matrices.

- Displays the resulting matrix.

4. Vector Functions

Write a C++ program to:

- Create a vector of integers.

- Insert 5 values using push\_back().

- Remove the third element using erase().

- Display all elements using iterators.

5. Function and Loop - Prime Number Checker

Write a C++ program with a function bool isPrime(int n) that returns true if n is prime.

- Take input from the user.

- Use the function to check and display whether the number is prime.

6. Reverse a String (Using Loops)

Write a C++ program that:

- Takes a string as input.

- Reverses the string using a loop.

- Displays the reversed string.

7. Sum of Array Elements using Function

Write a C++ program that:

- Declares an array of 5 integers.

- Uses a function `int sumArray(int arr[], int size)` to calculate the sum.

- Displays the total sum of the array elements.