

Lab Task 1

- 1. Write a program that checks if a number entered by the user is positive, negative, or zero.**
- 2. Create a program that determines if a given year is a leap year.**
- 3. Implement a program that calculates the factorial of a number using a while loop.**
- 4. Write a program that checks if a given number is prime or not.**
- 5. Create a program that prints the Fibonacci series up to a specified number of terms.**
- 6. Implement a program that calculates the sum of all numbers in a given range using a for loop.**
- 7. Write a program that checks if a given string is a palindrome.**
- 8. Create a program that generates the multiplication table of a given number using nested loops.**
- 9. Implement a program that finds the largest element in an array using if-else statements.**
- 10. Write a program that simulates a simple calculator with options for addition, subtraction, multiplication, and division.**