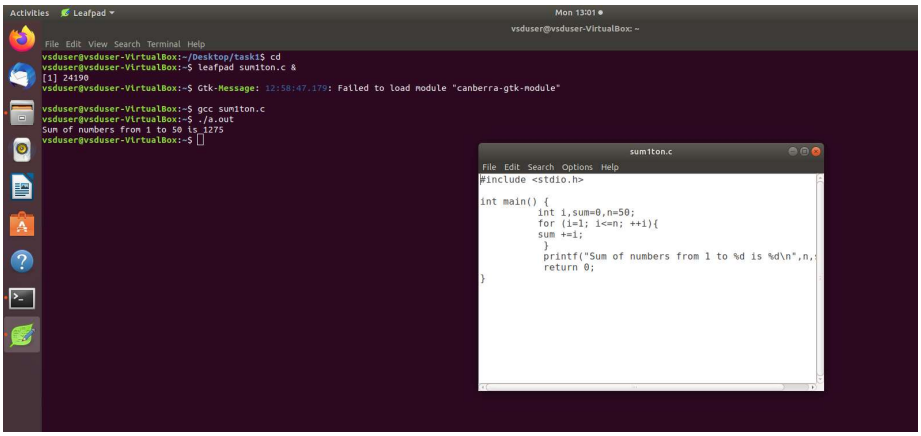
TASK-1

LAB:-1



CALCULATION OF SUM OF “n” TERMS:-

This program calculates the sum of all natural numbers from 1 to n. The user is prompted to input the value of n, and the program computes the result using one of the following methods:

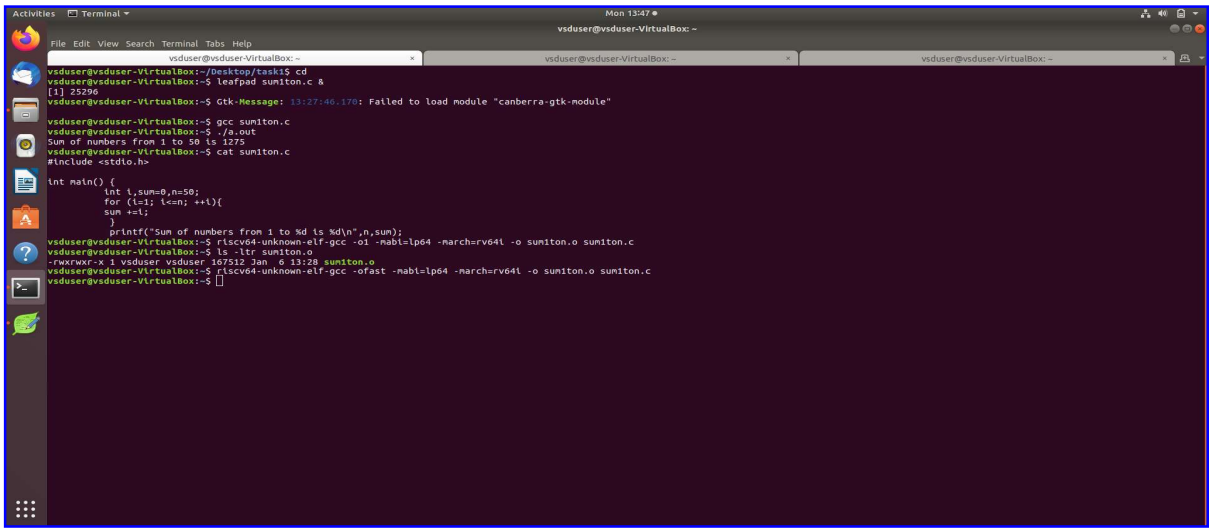
1. **Iterative Approach:** Using a for loop to add numbers sequentially from 1 to n.
2. **Formula-Based Approach:** Directly applying the mathematical formula for the sum of the first nnn natural numbers:

$$\textbf{Sum}=(n\times(n+1))/2$$

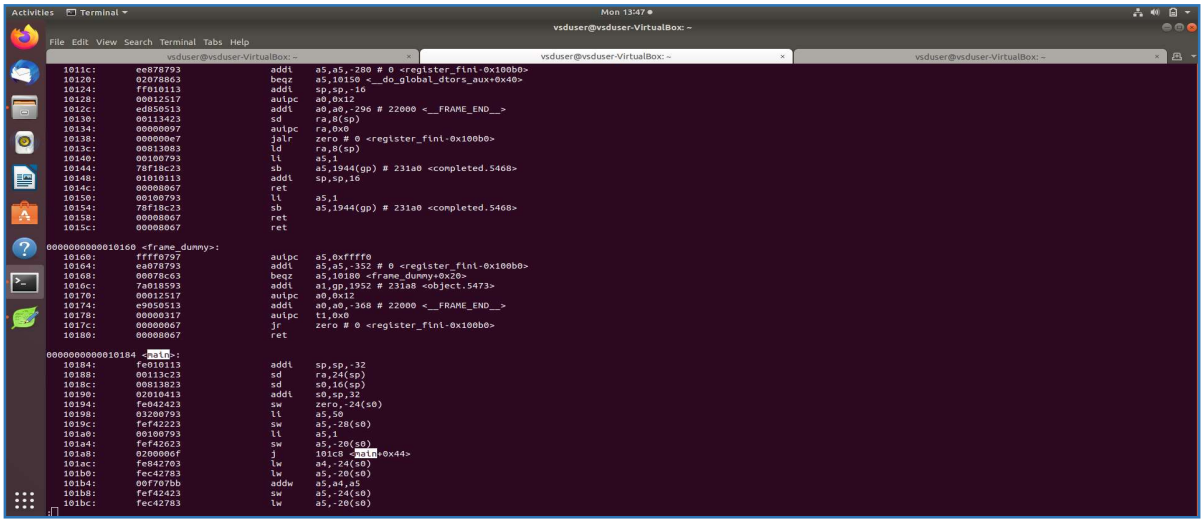
The program is designed to handle positive integers and includes basic input validation to ensure n is valid.

This program serves as a basic demonstration of iterative loops and formula-based calculations in C programming. It’s a great starting point for beginners learning programming concepts like loops, arithmetic operations, and input/output.

LAB-2



Same program Compiled using RISC file



output