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CST-307 Introduction to Computer Architecture

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**Program 1: Sum of Integers**

Image 1: First Prompt of the Sum of Integers Code.

A screen shot of a computer

Description automatically generated

In the first step, the program displays an initial message using prompt3 to inform the user about the program's purpose. The message introduces the program as a tool for finding the sum of two integers, setting the context for the upcoming input.

Image 2: Second Prompt of the Sum of Integers Code

A screenshot of a computer

Description automatically generated

The second step involves user input. The program prompts the user to enter the first number and waits for input. After the user enters the first number, it reads and stores it in $t0. Then, it prompts the user to enter the second number and reads and stores it in $t1. These steps collect the necessary numerical input from the user.

Image 3: Program Adds the two Integers and Displays Result

A screenshot of a computer screen

Description automatically generated

In the final step, the program calculates the sum of the two numbers by adding $t0 and $t1, storing the result in $t2. It then displays a message stating "The sum of the two numbers is: " followed by the calculated sum, using the result string. Finally, the program exits, ending the execution.

Overall, this program guides the user through the process of entering two numbers and then provides the sum of those numbers as the output, making it a simple and user-friendly calculator for addition.