

# **Arduino LAB**

Assignment 2.

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#### **Overview**

Required to implement a code to add two numbers up to 4 digits and Every time the user enters a number (4 digits) the Arduino must print this number on the screen, and the result of the two numbers.

#### Goals

- > Required to use serial communication in Arduino to perform a simple arithmetic operation.:
  - Should use the serial monitor to send an up to 4 digits signed number
  - followed by a "newline" character to signal the end of input.
  - Then you enter another up to 4 digits signed number
  - followed by a "newline" character.
  - The Arduino then must add these two numbers together and outputs the result in the serial monitor.

## **Overall organization:**

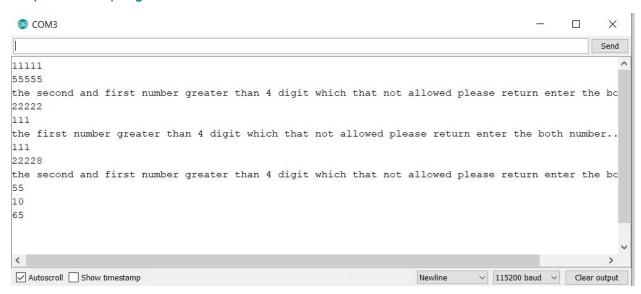
- > The input is taken from the user as a string and converted to integer if the user enters the character the number store as 0.
- > Check if the number less than or equal 4 digit :
  - If not, the error message appears to the user to enter the two numbers again .
- > Then if the two numbers are valid the sum of them print in the serial monitor.

### The link of the code:

The Code to add two numbers up to 4 digits implementation.

## sample runs:

Some sample runs when the user enter number greater than 4 digit and the output of the program:



> when the user enter number less than 4 digit and the output of the program:

