



## Microcontroller Assignment Three

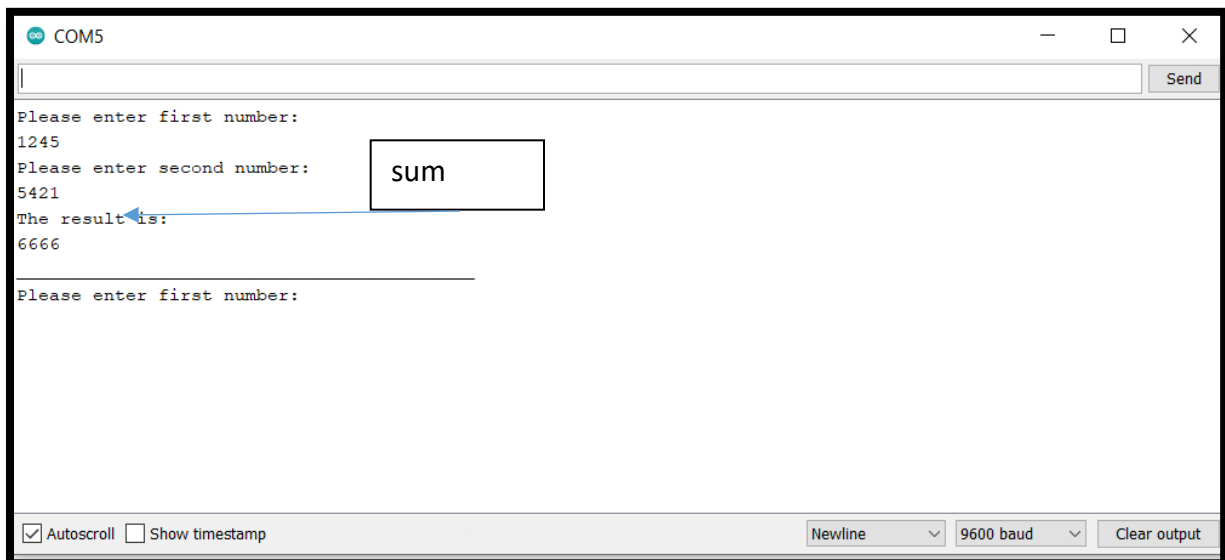
### Objectives

Getting familiar with Arduino Serial Monitor.

Getting familiar with Arduino Serial Plotter.

### Part-01: Serial Monitor:

- You are required to use serial monitor in Arduino to perform a simple arithmetic operation.
- You should use the serial monitor to send an up to 4 digits unsigned number followed by a “newline” character to signal the end of input. Then you enter another up to 4 digits unsigned number followed by a “newline” character. The Arduino then must add these two numbers and outputs the result in the serial monitor. (Use the “newline” tab on serial monitor to send newline when pressing ‘Enter’).
- Every time you enter a number (4 digits) the Arduino must print this number on the screen.
- A sample run of the program should produce a similar image



## **Part-02: Serial Plotter:**

You are required to plot a sin wave using Arduino serial plotter.

### **Delivery Policy**

- Each group must send a 20-second video showing the Arduino setup and serial monitor/plotter for each part of the experiment.
- You should submit a report describing your work, showing your observation in Part-01 and Part-02 and the challenges you faced (if any).
- You should submit the sketch source code (.ino file(s)).
- All of the required submissions should be zipped in one file.
- You should cite any additional resources you used.
- Further details for the submission instructions will be posted later on MS Teams.

---

**Good Luck**