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platformio.ini
1 ; PlatformIO Project Configuration File

--- Terminal on COM4 | 9600 8-N-1
--- Available filters and text transformations: colorize, debug, default, direct, hexlify, log2file, nocontrol, printable, send_on_enter, ti
me
--- More details at https://bit.ly/pio-monitor-filters
--- Quit: Ctrl+C | Menu: Ctrl+T | Help: Ctrl+T followed by Ctrl+H
Input a temperature
68
Current temperature is 68, max temperature is 68, min temperature is 68, avg temperature is 68
Input a temperature
10
Current temperature is 10, max temperature is 68, min temperature is 10, avg temperature is 39
Input a temperature
-67
Current temperature is -67, max temperature is 68, min temperature is -67, avg temperature is 3
Input a temperature
42
Current temperature is 42, max temperature is 68, min temperature is -67, avg temperature is 13
Input a temperature
10
Current temperature is 10, max temperature is 68, min temperature is -67, avg temperature is 12
Input a temperature
100
Current temperature is 100, max temperature is 100, min temperature is -67, avg temperature is 27
Input a temperature
```

// The screenshot shows the output of the Arduino through the serial monitor. As input, I chose different numbers at random to see what the output is, and the output reacted accordingly. The average was the total temperature divided by the numbers of temps recorded, and the maximum and minimum were set to the greatest and lowest values inputted (100 and -67, respectively).

// On the first test run, I input 68, which set the maximum and minimum to 68 (they were set to the MIN and MAX of the INT16 type, respectively). The average was also 68, because the sum was 0+68 and the counter equaled 1, therefore $68/1=68$

//On run 3, I input -67, which set the minimum to -67 and brought the average down from 39 to 3.