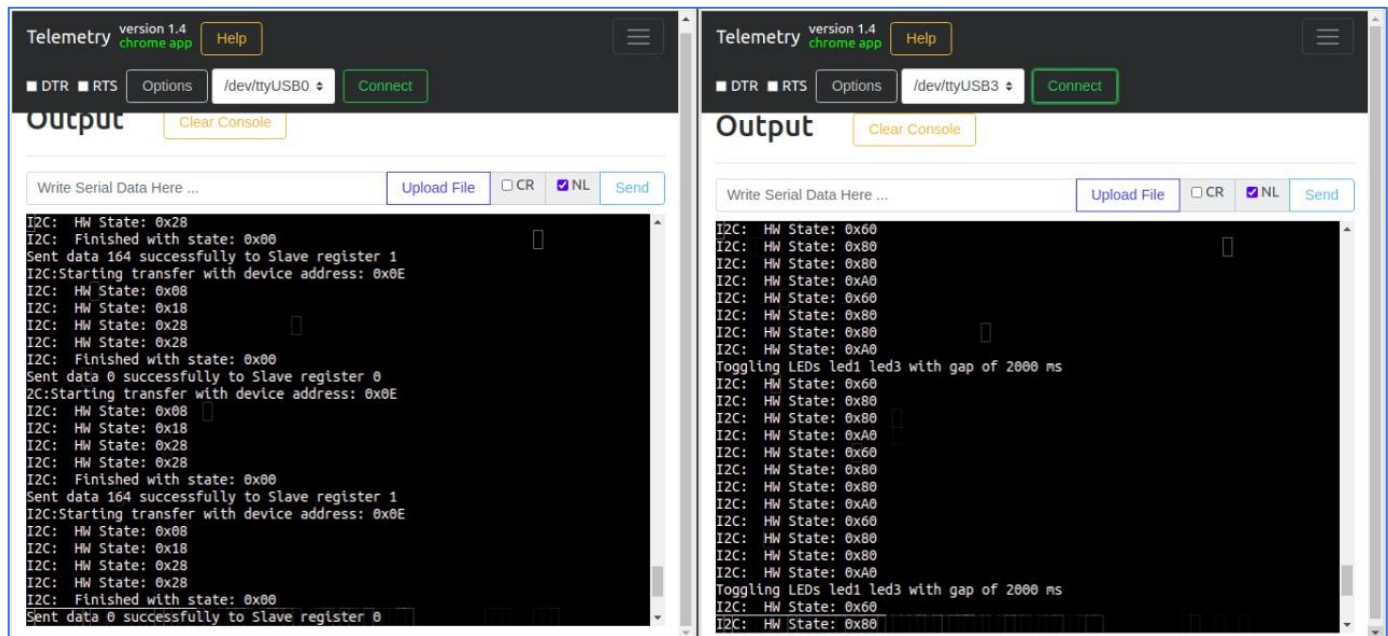


Assignment : I2C Lab – Part 3
Submitted by : Lab Group – 9
Tirth Pandya, Tejas Pidkalwar
Date : November 3, 2020

Master-Slave Operation:



Master Transmit Slave Receive Operation

The master write on 2 different memory location is programmed for two different functionalities as described below. The register is the array index of the memory of slave.

Register 0 [On/Off the on board LEDs] :

Led 3	Led 2	Led 1	Led 0	X	X	X	X
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Setting the LED bit to 1 will turn it on and 0 will turn it off

For eg. Writing 0b00110000 will turn the Led-1 and LED-0 on while the LED-2 and LED-3 will remain off.

X – don't care

Register 1 [Blink the on board LEDs] :

Led 3	Led 2	Led 1	Led 0	T3	T2	T1	X
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T3:T1 – Delay in seconds between toggles

For eg. Writing 0b10100110 will blink the LED-3 and LED-1 at the intervals of 3 seconds.

X – don't care

Video Demonstration : [Link](#)