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* Project: Electrical Applicator for TSP
* Description: Everything is handled through software, all of the buttons (suppose to represent a
  physical light switch), but it gives
*  a user a physical way to turn on the lights. Also everything can be handled through software
  by sending specific characters to the arduino using the serial connection.
*           To turn on the LEDs, send the following Characters:
*             q - Turns on all LED's
*             w - Turns on LED 2
*             e - Turns on LED 3
*             r - Turns on LED 4
*             t - Turns on LED 5
*             y - Turns on LED 6
*             u - Turns on LED 7
*
*           To turn off the LEDs, send the following Characters:
*             a - Turns off all LED's
*             s - Turns off LED 2
*             d - Turns off LED 3
*             f - Turns off LED 4
*             g - Turns off LED 5
*             h - Turns off LED 6
*             j - Turns off LED 7
*
* **NOTE: I am using the Arduino IDE for my testing. When it comes to sending data, open the
Arduino IDE (upload code if needed) --> Go to tools --> Serial Monitor
*       Make sure if you are using a program like putty to send data over, make sure its using a
9600 baud rate.
*       Also the reason why I stated LED 2 to LED 7 is because of how the data pins are allied
to the LEDs.
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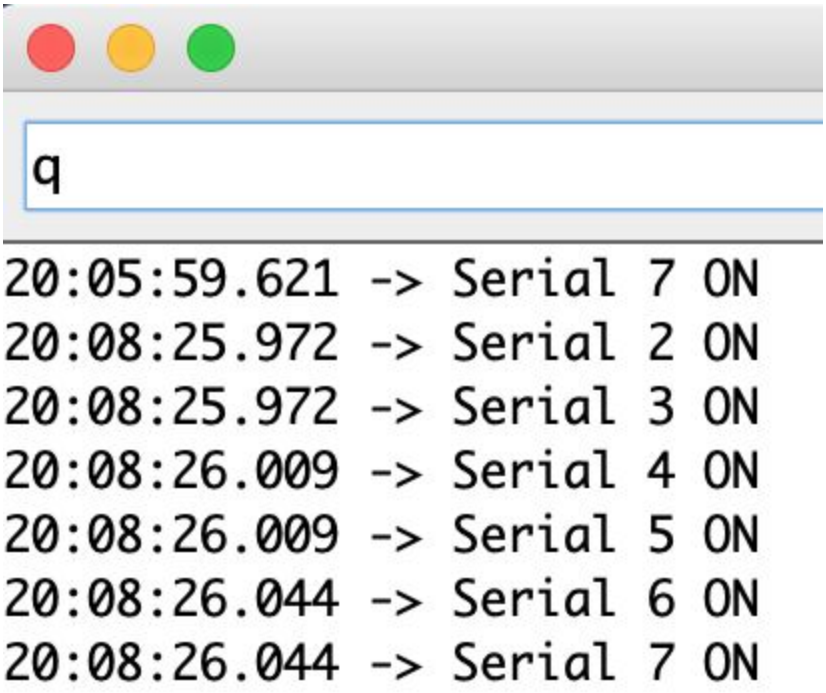
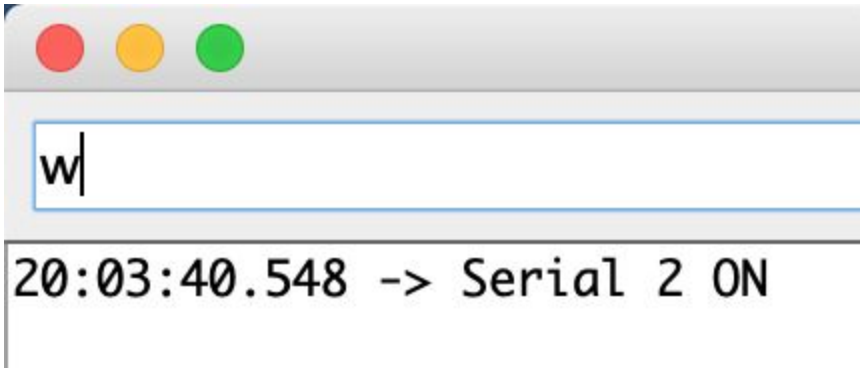
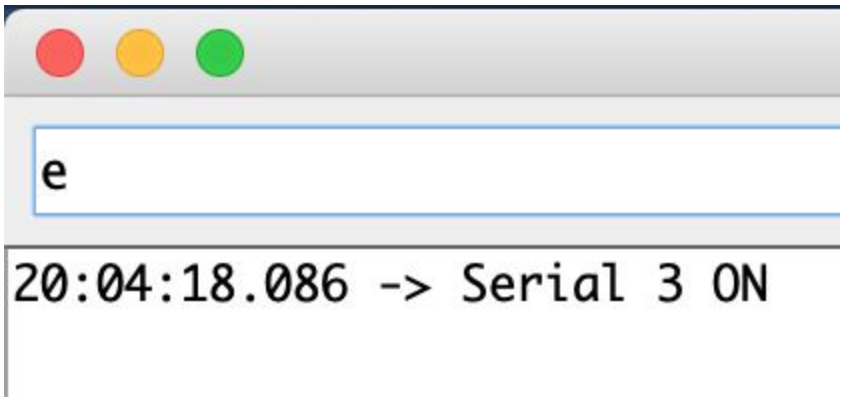
Turning LED's On



Typing Q:

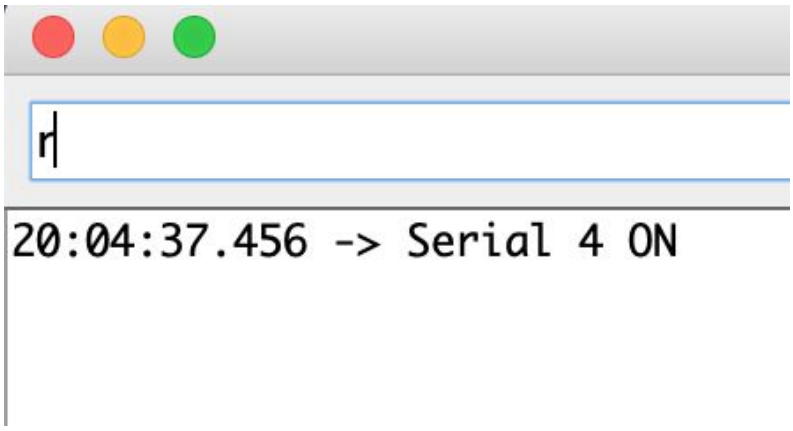


Typing W:

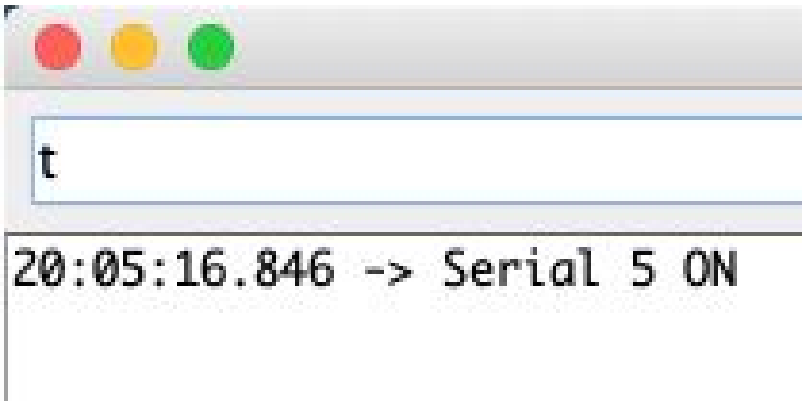


Typing E:

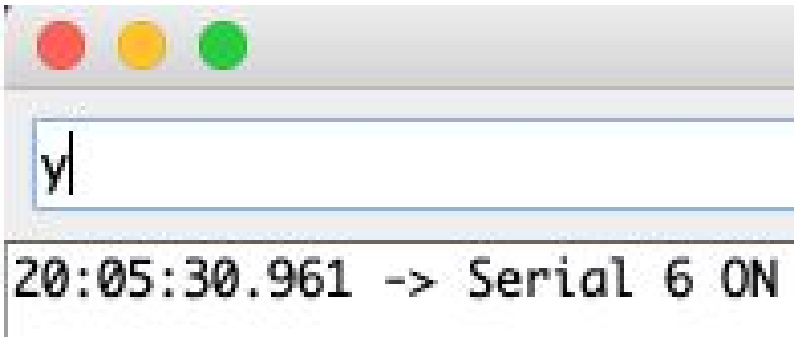
Typing R:



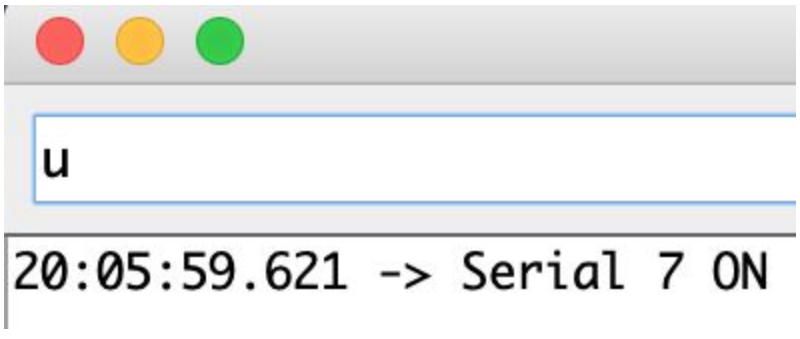
Typing T:



Typing Y:

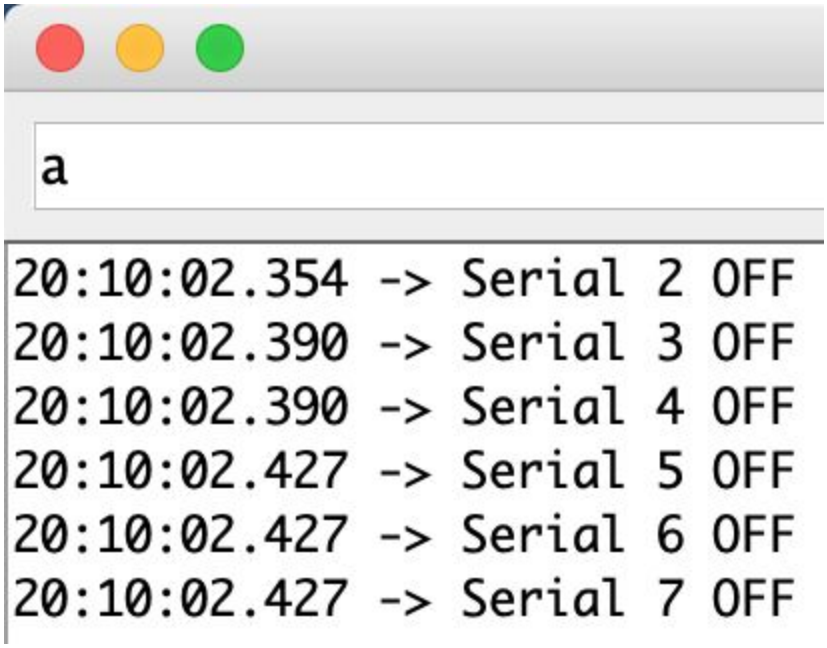


Typing U:

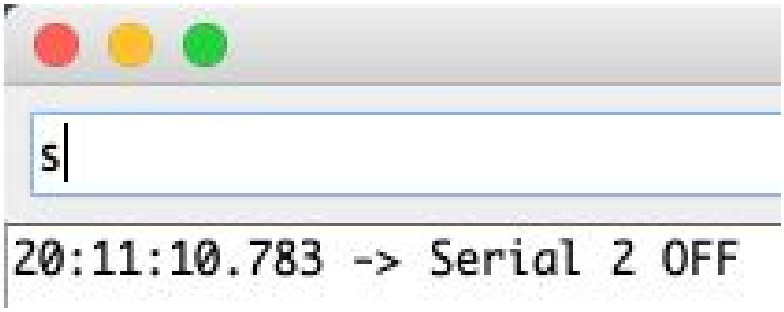


Turning LEDs Off

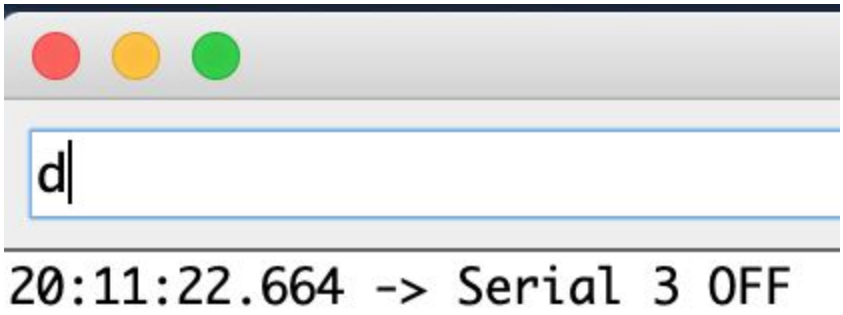
Typing A:

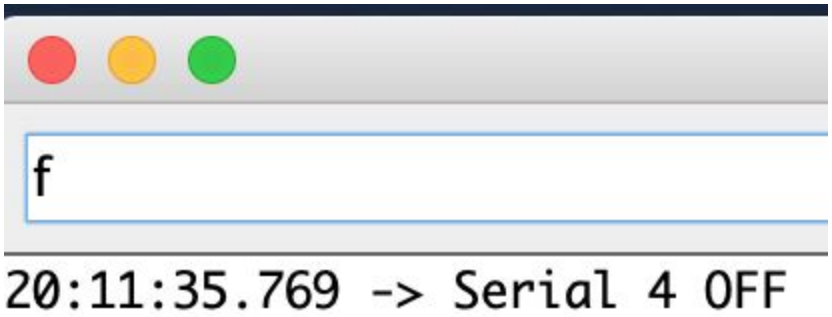


Typing S:

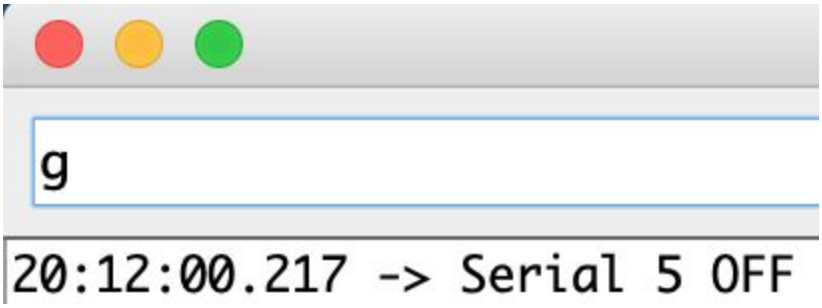


Typing D:

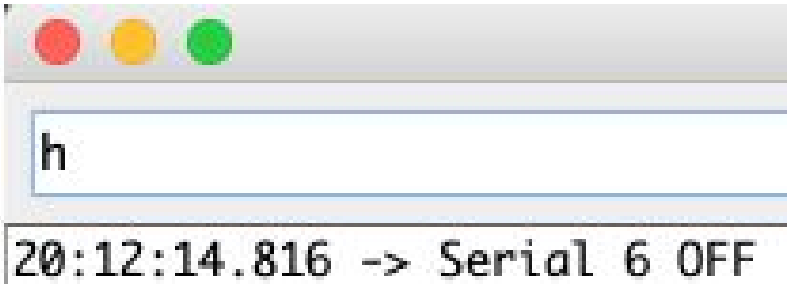




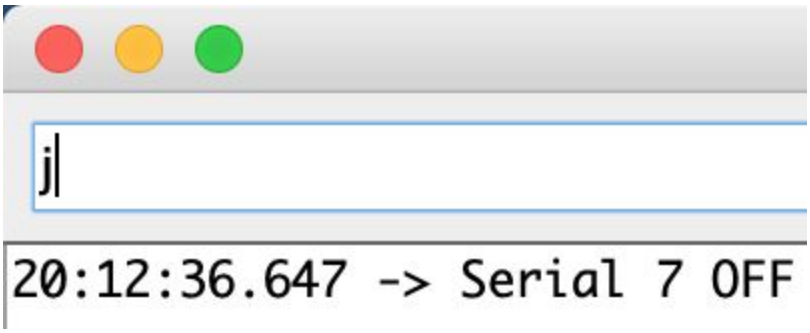
Typing F:



Typing G:



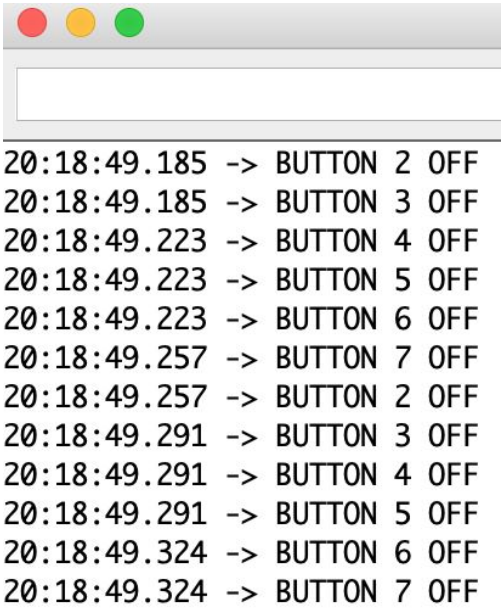
Typing H:



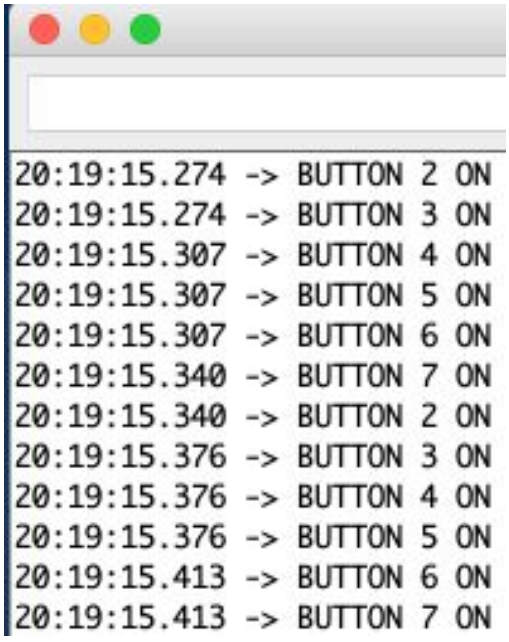
Typing J:

Pressing Physical Buttons

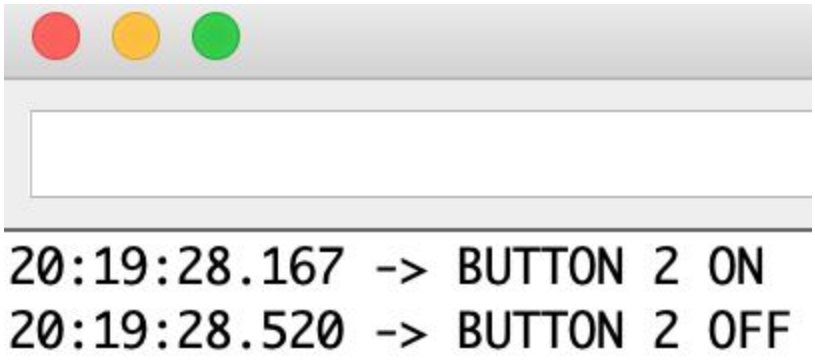
Pressing Button 0 - ALL LEDs OFF:



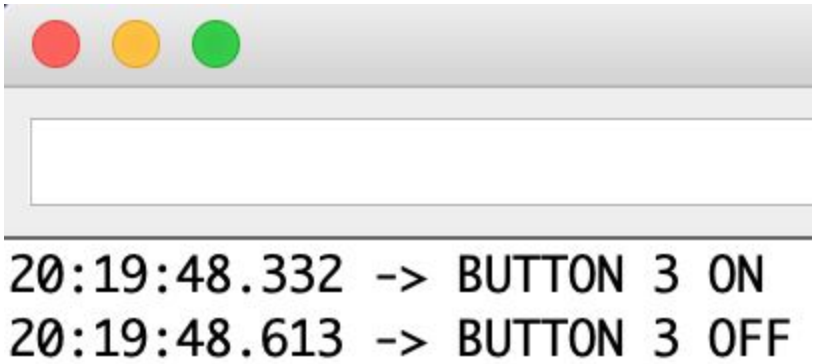
Pressing Button 1 - All LEDs On:



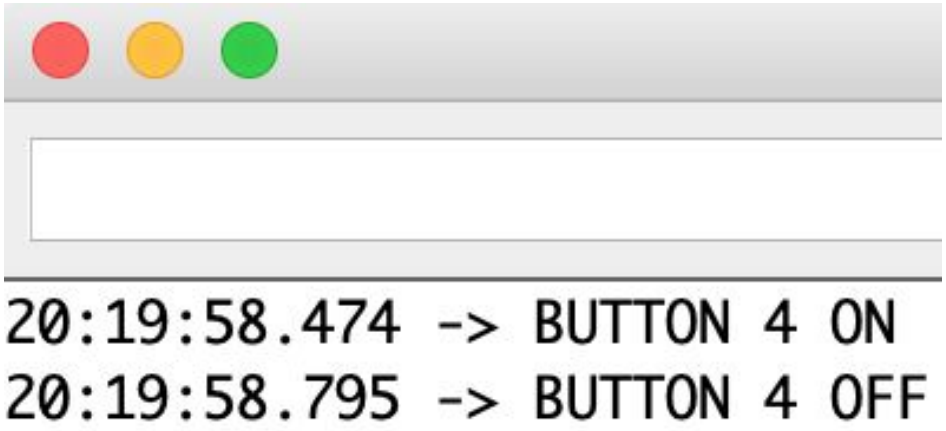
Pressing Button 2 - LED 2 On/Off:



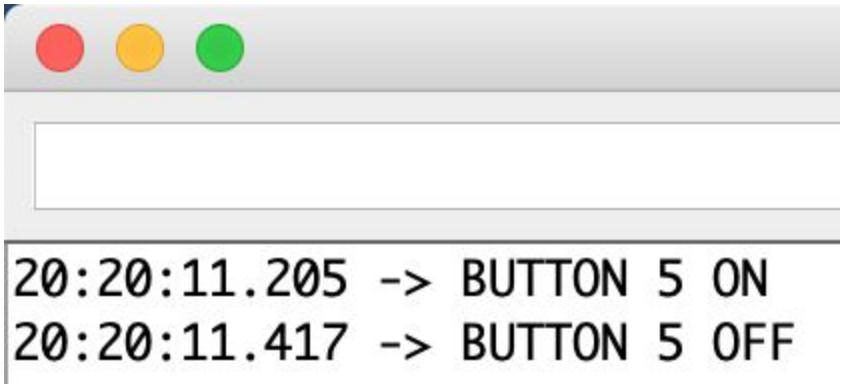
Pressing Button 3 - LED 3 On/Off:



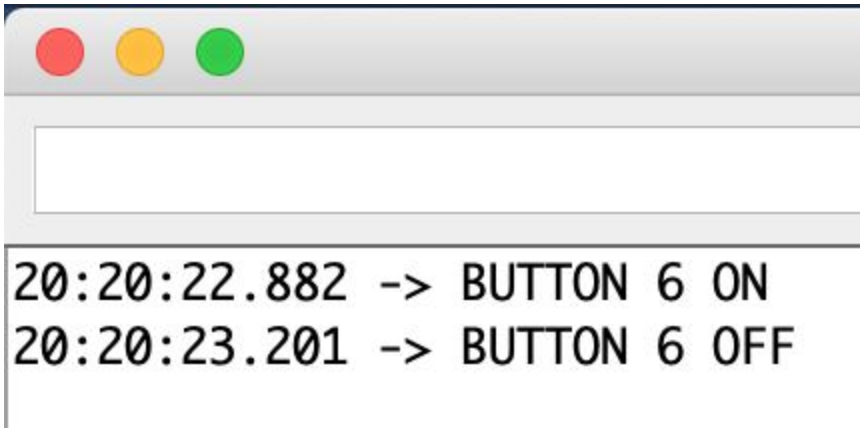
Pressing Button 4 - LED 4 On/Off:



Pressing Button 5 - LED 5 On/Off:



Pressing Button 6 - LED 6 On/Off:



Pressing Button 7 - LED 7 On/Off: