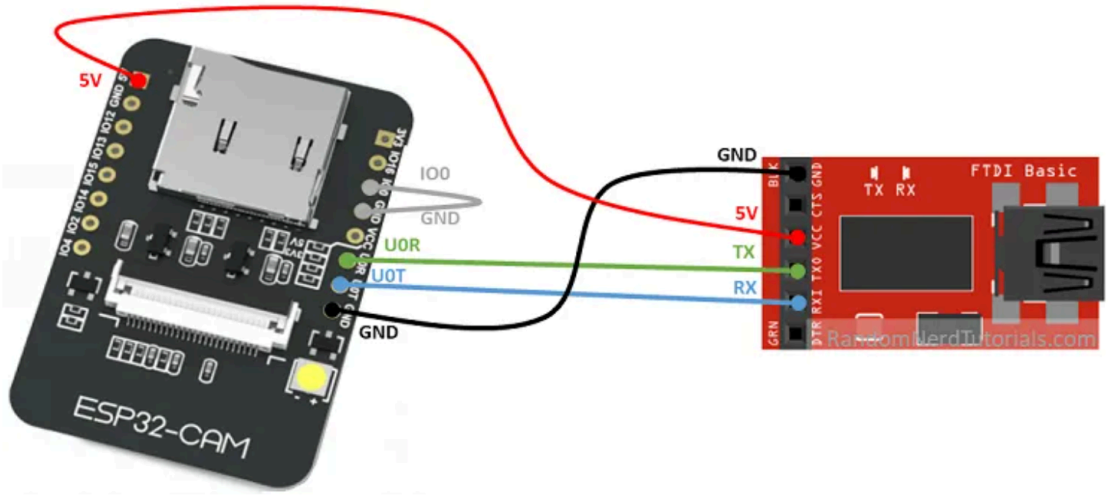
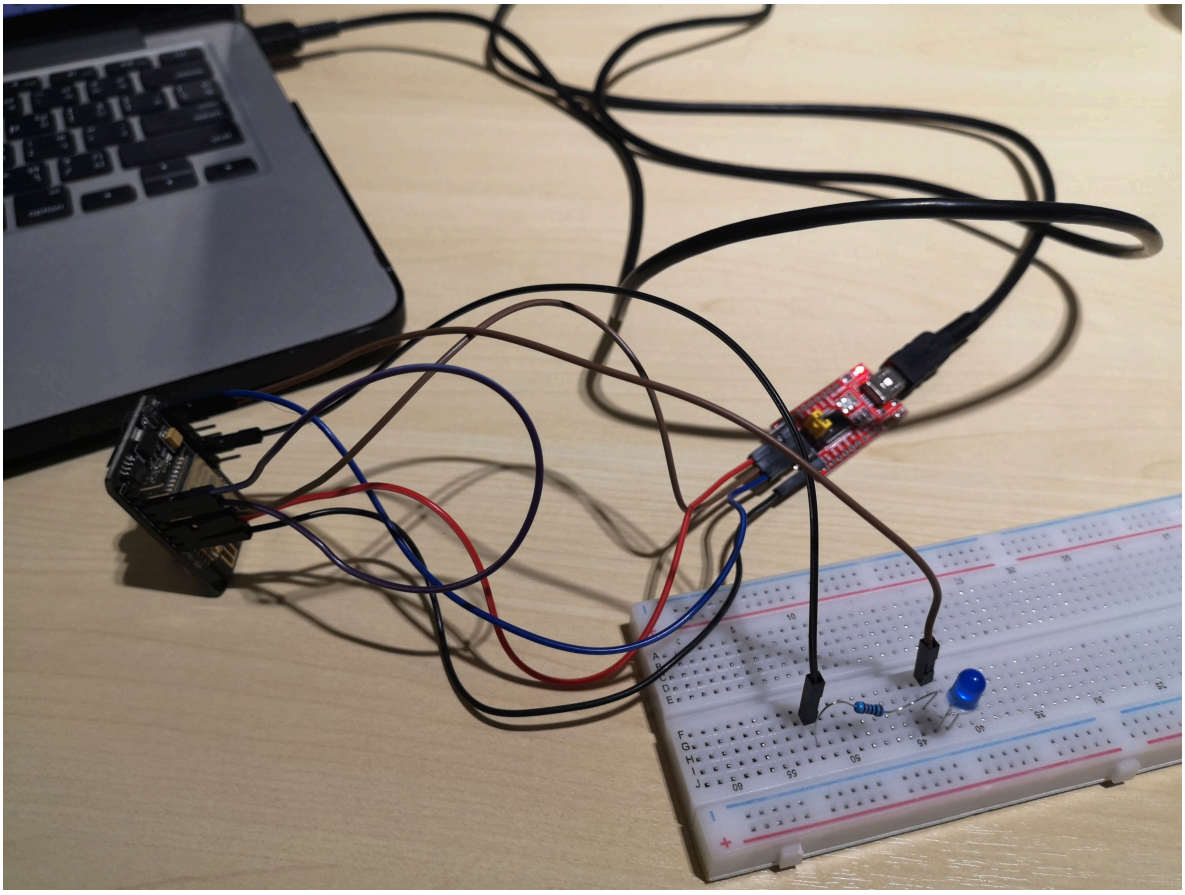
CAPSTONE WASTE CAN DEVELOPMENT

JUNE 24 (DID NOT WORK)
Establishing Serial Communication Between ESP32 CAM and Arduino Through Blinking Lights

1. Uploaded code to ESP 32 CAM through FTDI programmer using the basic schematic below:



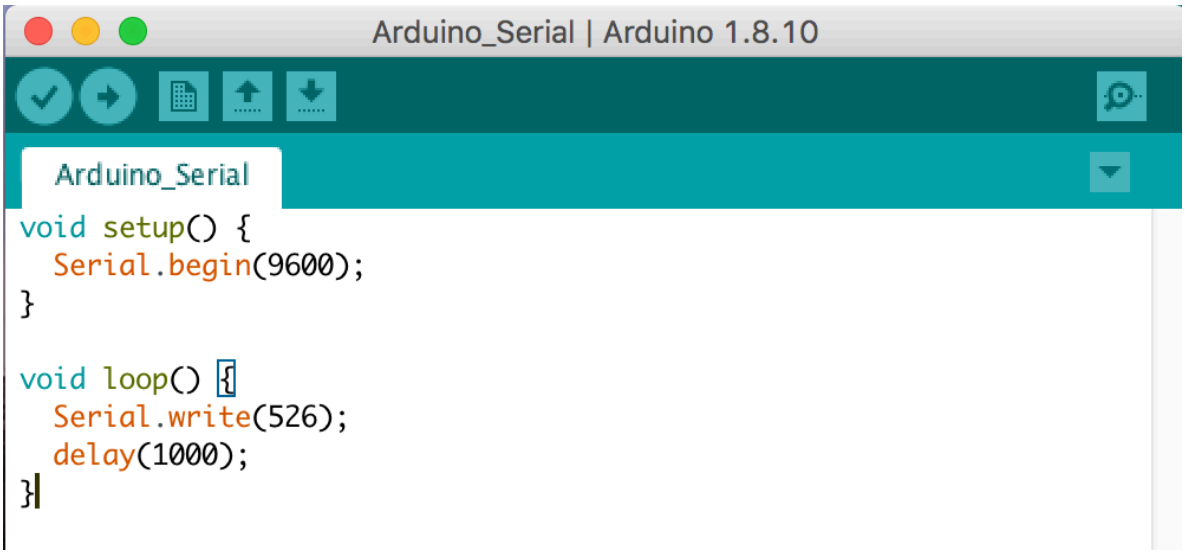
+ added **GND** (ESP32 CAM) to negative pin of LED and **GPIO 14** (ESP32 CAM) to positive pin of LED (this schematic worked when only blinking the lights)



Code on ESP32 CAM:

2. Uploaded code to Arduino Uno

Code on Arduino Uno:



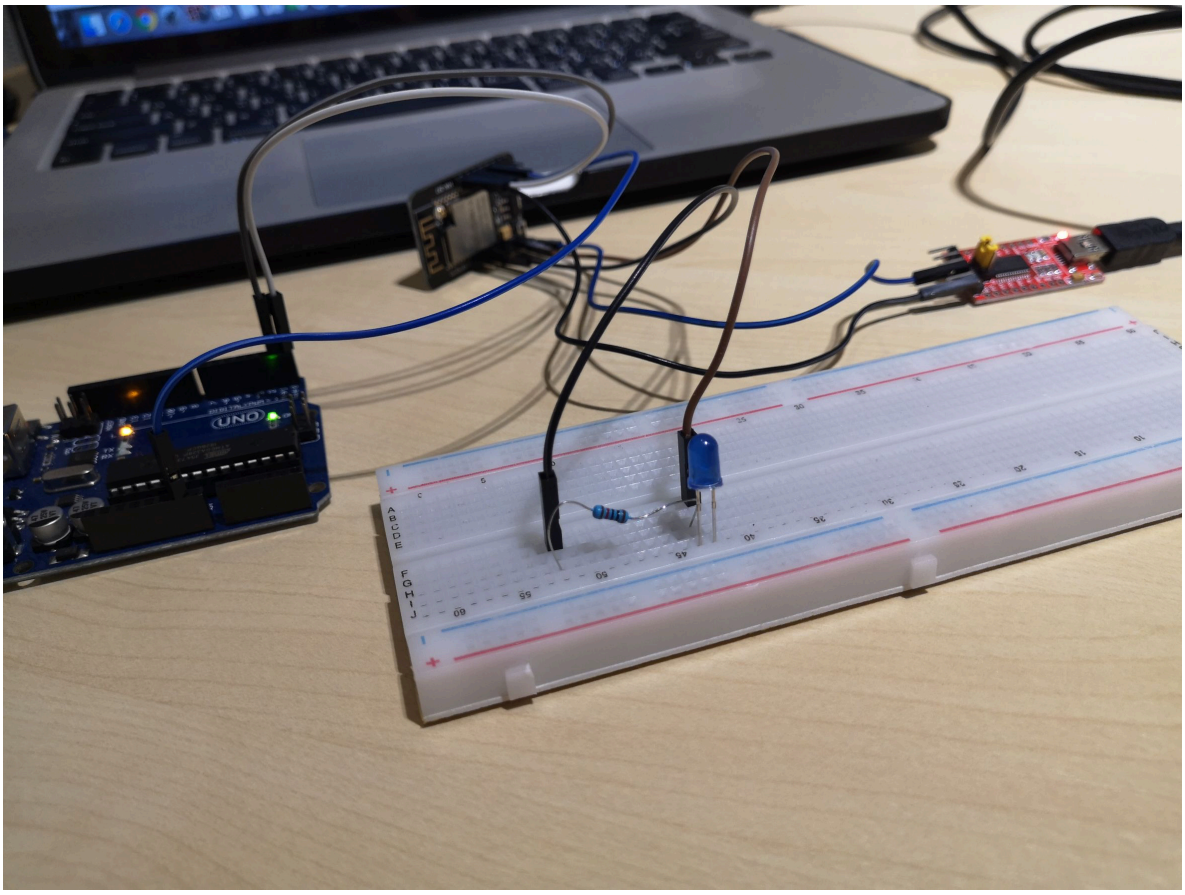
3. On ESP32 CAM, I did this to run code:

   6) When you see the "**Done uploading**" message, you need to remove GPIO 0 from GND and press the RST button to run your new code.

4. After that, I disconnected TX and RX pins from FTDI programmer and connected them to Arduino Uno instead (TX Arduino - RX ESP32, RX

Arduino - TX ESP32)

5. Connected GND of ESP32 to GND of Arduino Uno



Result: the light turned on for around 1 second, then remained off throughout. Even after clicking reset on ESP32 CAM again, it only turned on for 1 second and remained off throughout.