

Lab Two Memo

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Arduino Code

```
//const int input = A0; // This is where the input is fed.
int pulse = 0; // Variable for saving pulses count.
int var = 0;
int digitalPin = 20;
char IncomingByte;

int val=0;
const int pin_in=A0;
int pin_out=10;
void setup() {
    // put your setup code here, to run once:
    TCCR2B = (TCCR2B & 0xF8) | 0x03; //pg. 57
    //TCCR1B = (TCCR1B & 0xF8) | 0x02; //pg. 57
    pinMode(pin_in, INPUT);
    attachInterrupt (digitalPinToInterrupt(digitalPin),pulse_counter,HIGH);
    Serial.begin(9600);
    //Serial.println(F("No pulses yet...")); // Message to send initially (no pulses detected yet).
}

void loop() {
    // put your main code here, to run repeatedly:

    val=analogRead(pin_in);
    val << 2;
    analogWrite(pin_out,val/4);

    //TCCR2B = TCCR2B & ~B00110000; //switch off output B
    //TCCR2B |= B00110000; //switch on the B output with inverted output
    //analogWrite(pin_out,1023);
    if (Serial.available() > 0){
        IncomingByte=Serial.read();
        Serial.println(pulse);
    }
    |
}

void pulse_counter()
{

    pulse++;
    // while(Serial.available()) {
    //Serial.println(float(pulse),0);

}
```

Python Code

[illegible]

Data

