```arduino
//13 is the input to the circuit (connects to 150ohm resistor), 11 is the comparator/op-amp output.
//reibot.org for guide

double pulse, frequency, capacitance, inductance;


void setup(){

  Serial.begin(115200);

  pinMode(11, INPUT);
  pinMode(13, OUTPUT);

  Serial.println("Why hello!");
  delay(200);


}


void loop(){

  digitalWrite(13, HIGH);
  delay(5); //give some time to charge inductor.
  digitalWrite(13,LOW);

  delayMicroseconds(100);  //make sure resination is measured

  pulse = pulseIn(11,HIGH,5000);//returns 0 if timeout


  if(pulse > 0.1){ //if a timeout did not occur and it took a reading:

    capacitance = 2.E-6; //insert capacitance here. Currently using 2uF

    frequency = 1.E6/(2*pulse);

    inductance = 1./(capacitance*frequency*frequency*4.*3.14159*3.14159);//one of my profs told me just do squares like this

    inductance *= 1E6;   //note that this is the same as saying inductance = inductance*1E6

    Serial.print("High for uS:");
    Serial.print( pulse );

    Serial.print("\tfrequency Hz:");
    Serial.print( frequency );


    Serial.print("\tinductance uH:");
    Serial.println( inductance );

    delay(20);

  }


}
```