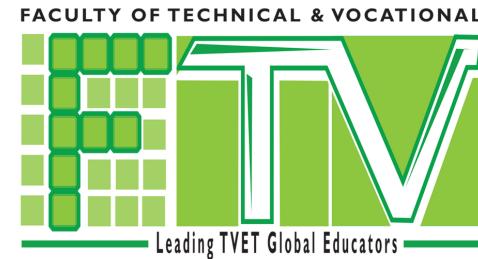




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MODUL PEMBELAJARAN ELEKTRONIK DENGAN KEFUNGSIAN PENDERIA

2.0 PENDERIA /SENSOR

2.1 TEMPERATURE SENSOR

MULAKAN



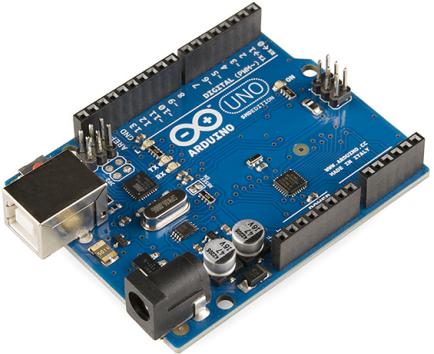
DI SEDIAKAN OLEH AMIN, DR IRDAYANTI

STEP 1:

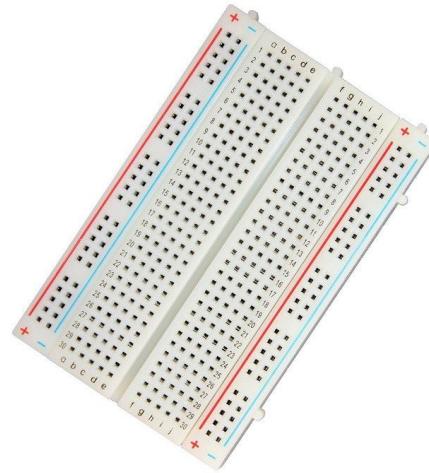
SEDIAKAN SEMUA KOMPONEN



RED LED



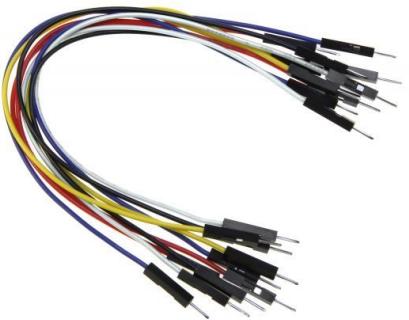
ARDUINO UNO R3



BREADBOARD



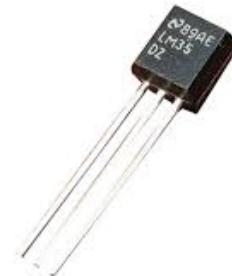
**1K OHM
RESISTOR**



**MALE TO MALE / FEMALE TO
MALE JUMPER WIRES-10 PIECES**



USB CABLE B



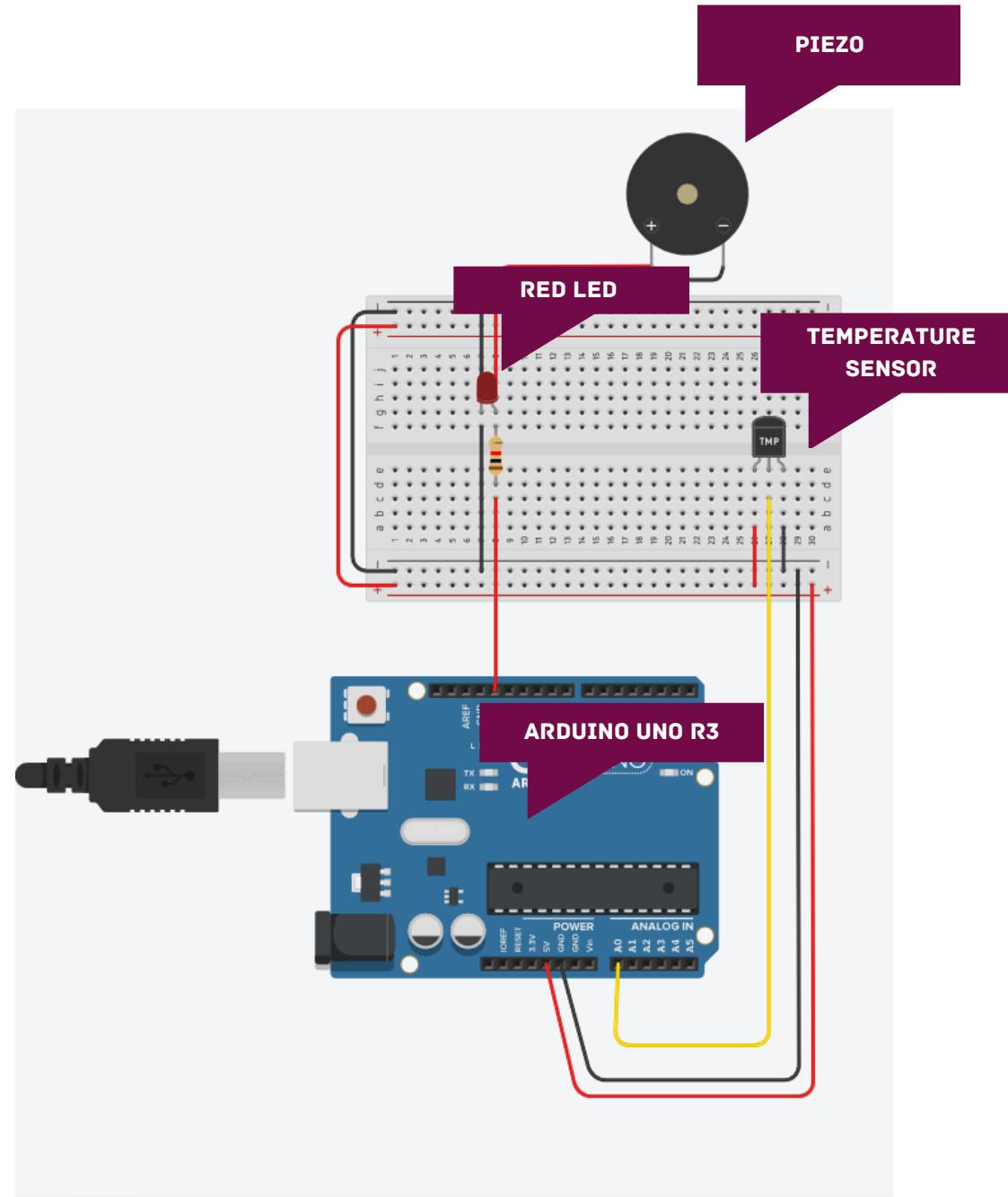
**TEMPERATURE
SENSOR**

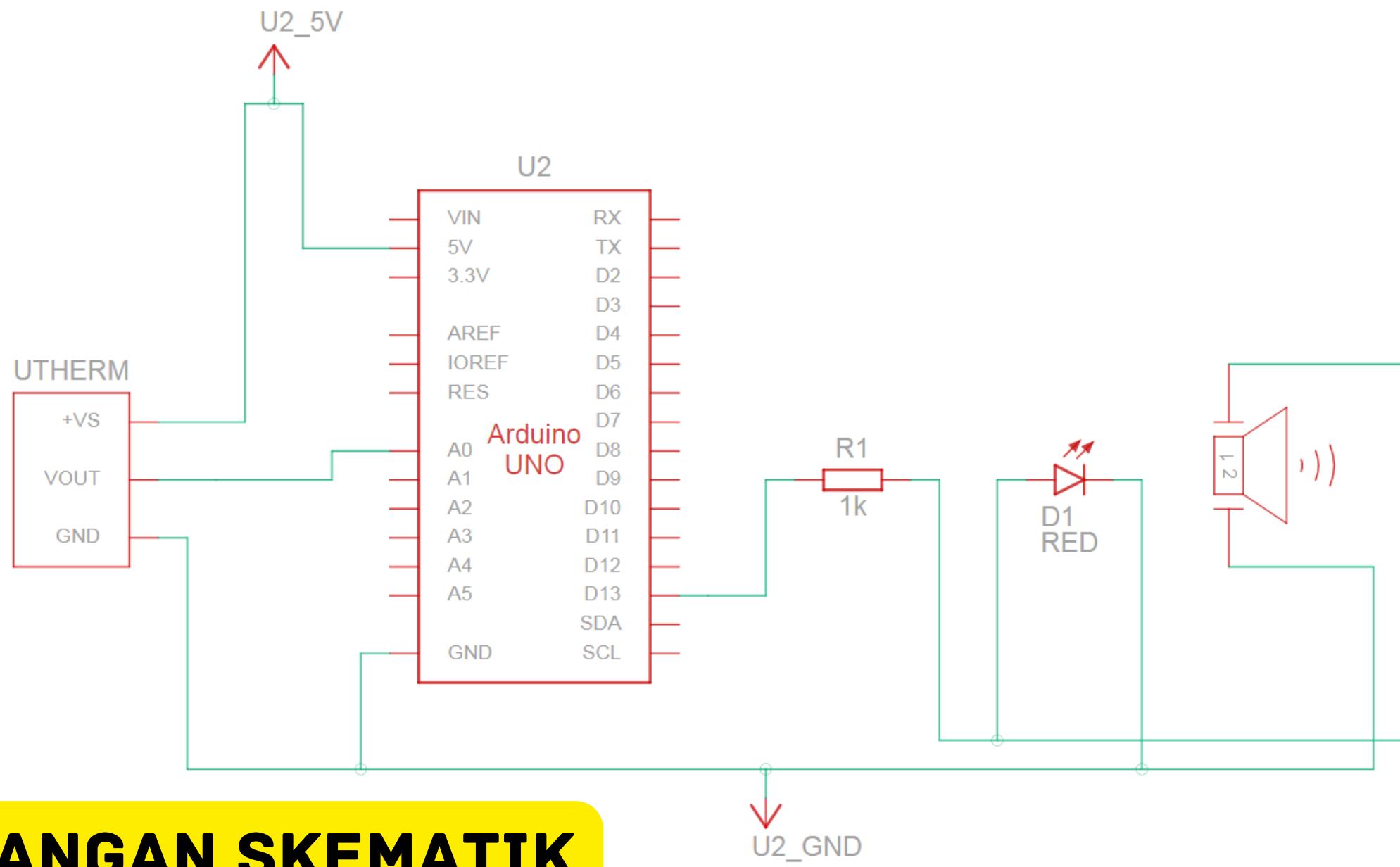


PIEZO

STEP 2 :

GAMBAR RAJAH SAMBUNGAN





PANDANGAN SKEMATIK

STEP 3 :

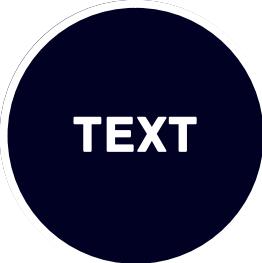
CODDING ARDUINO UNO

```
const int analogIn = A0;
int humiditysensorOutput = 0;
// Defining Variables
double tempC = 0;
int piezoPin=13;
void setup(){
    Serial.begin(9600);
    pinMode(piezoPin,OUTPUT);
}

void loop(){
    tempC = analogRead(analogIn);
    tempC = tempC*0.4882815;
    if(tempC>60){
        Serial.print("Temperature is high");
        Serial.println("");
        digitalWrite(piezoPin,HIGH);
        delay(100);
    }

    else{
        digitalWrite(piezoPin, LOW);
    }

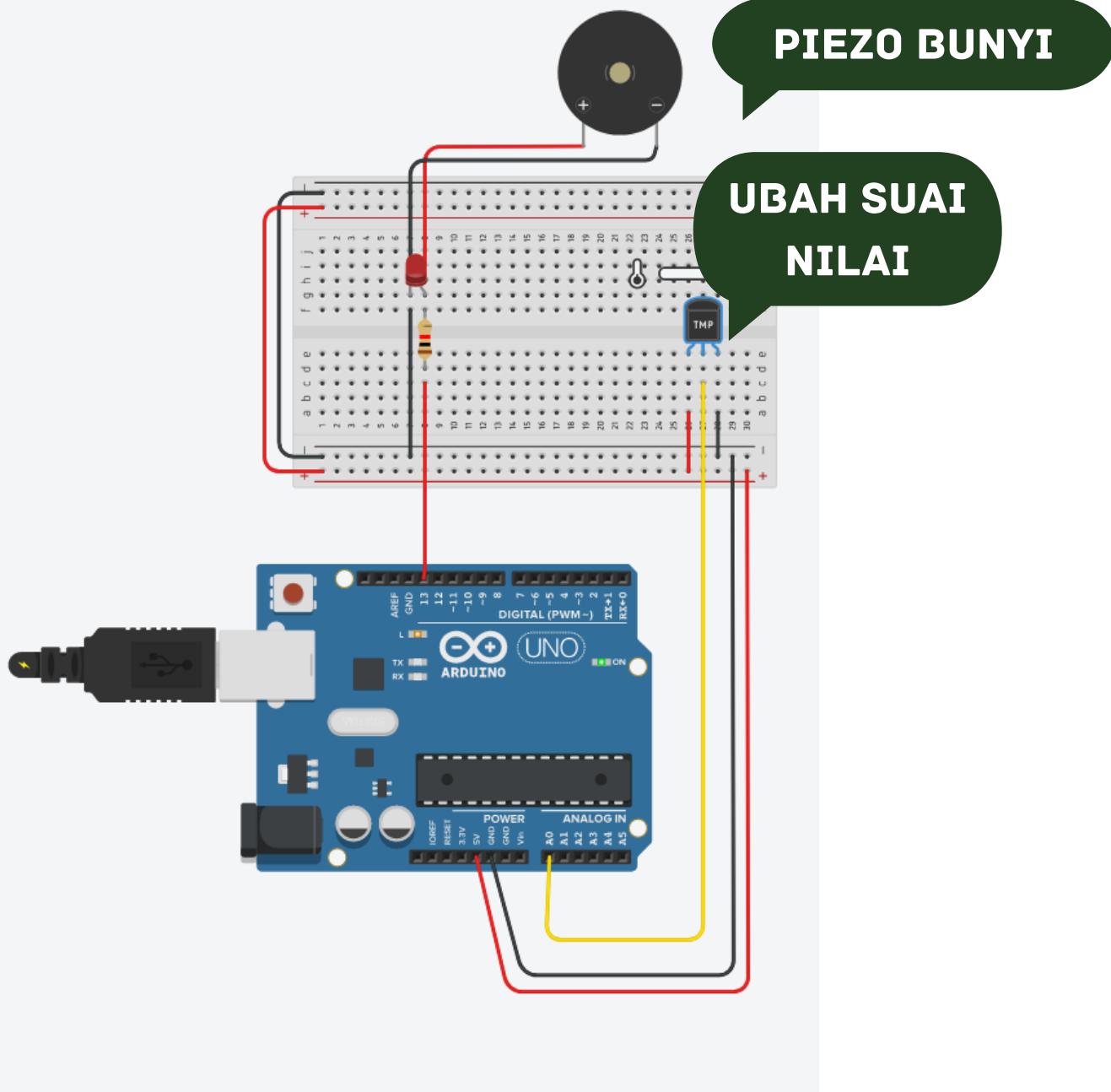
    Serial.print("Temperature = ");
    Serial.print(tempC); // display temperature value
    Serial.print("*C");
    Serial.println();
    delay(100); // update sensor reading each one second
}
```



TEXT

STEP 4 :

SIMULASI



Serial Monitor

174.80°C
 Temperature is high
 Temperature = 174.80°C
 Temperature is high
 Temperature = 174.80°C
 Temperature is high
 Temperature = 174.80°C
 Temperature is high

ENTER

LINK TINKERCAD