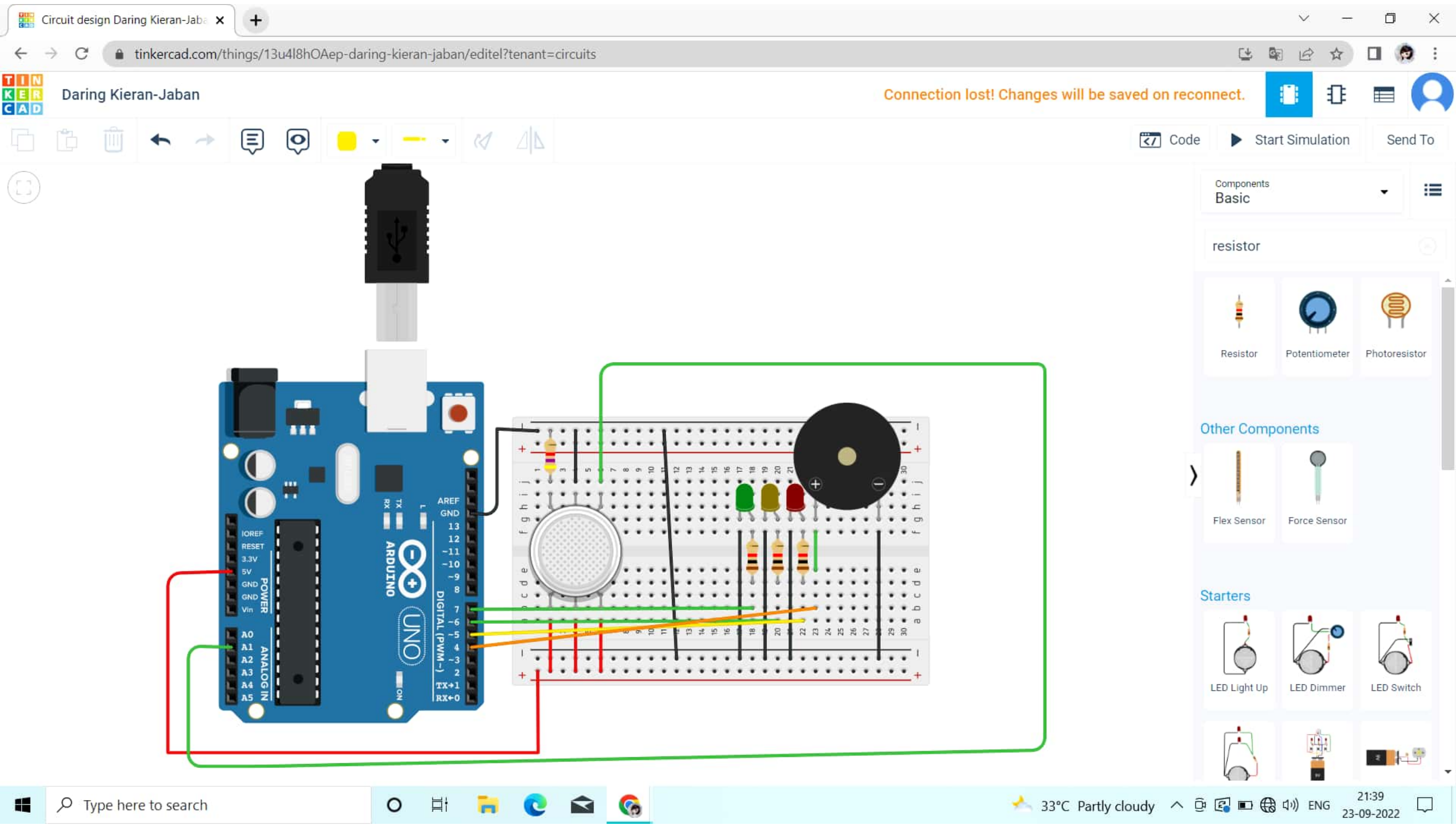
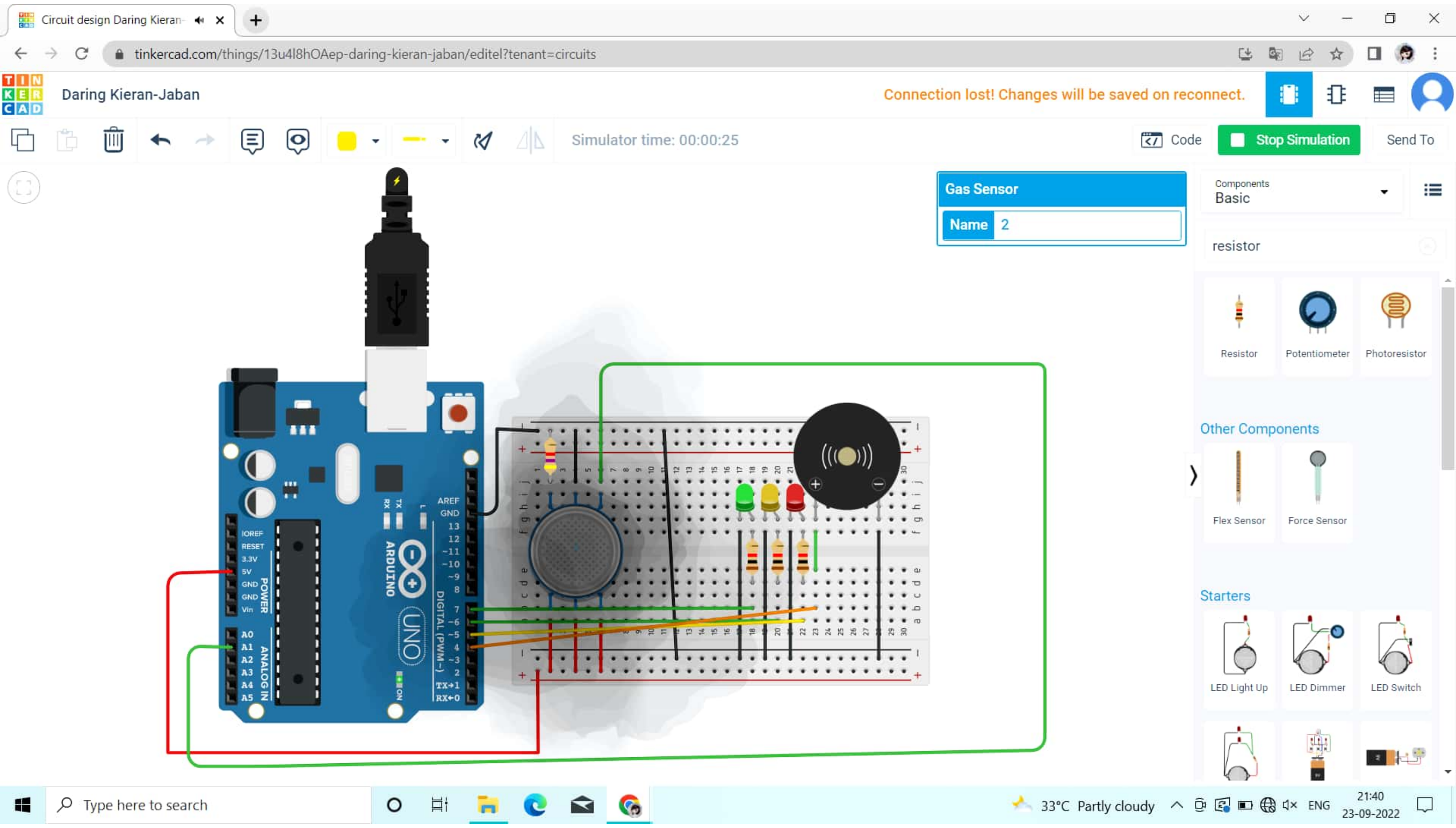
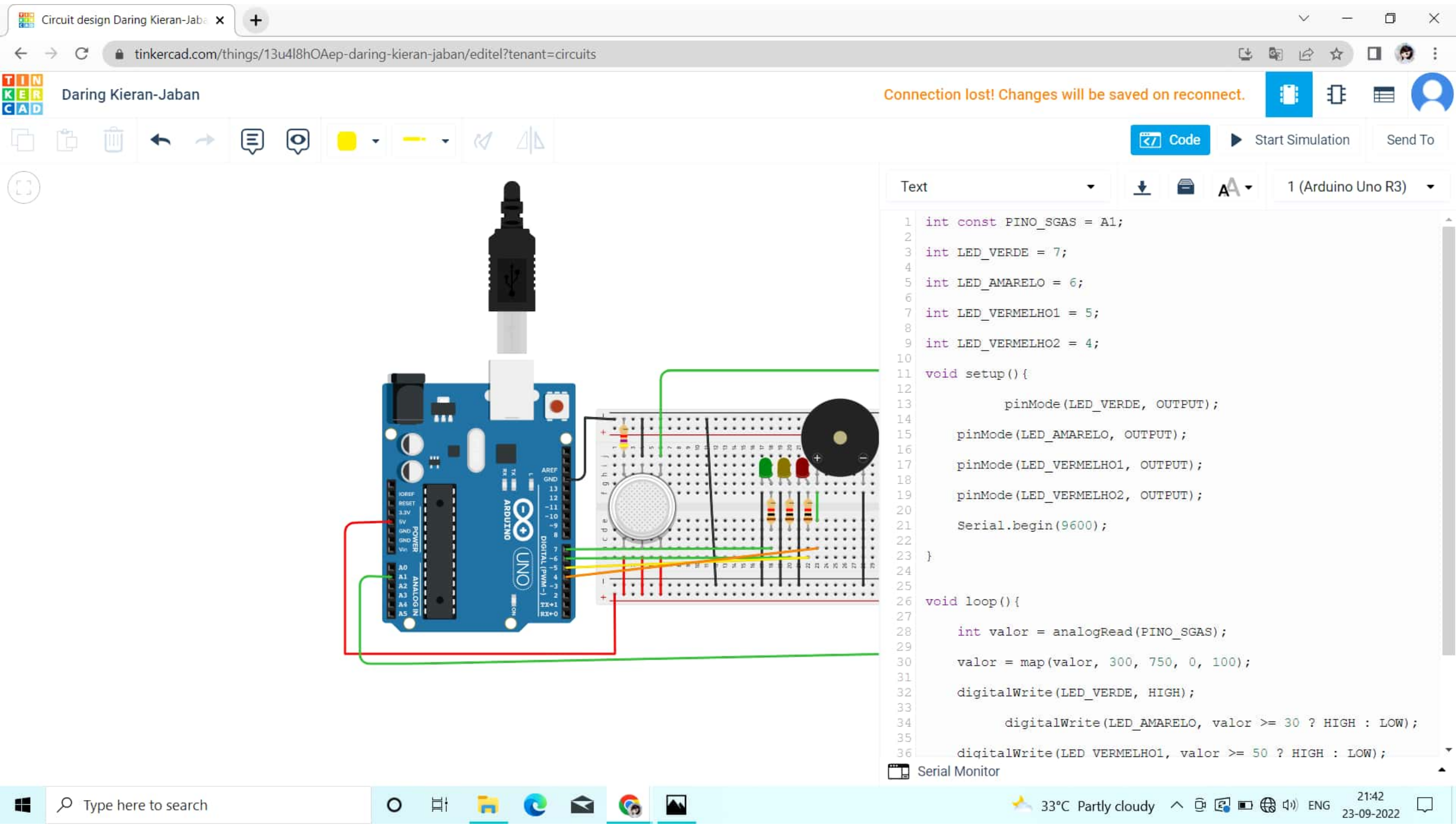

Circuit design Daring Kieran-Jaba
tinkercad.com/things/13u4l8hOAep-daring-kieran-jaban/editel?tenant=circuits
Daring Kieran-Jaban
Code
Start Simulation
Send To
Components
Basic
resistor
Resistor
Potentiometer
Photoresistor
Other Components
Flex Sensor
Force Sensor
Starters
LED Light Up
LED Dimmer
LED Switch
ARDUINO
UNO
AREF
GND
IOREF
RESET
3.3V
5V
GND
GND
Vin
POWER
A0
A1
A2
A3
A4
A5
ANALOG IN
DIGITAL (PWM~)
TX→1
RX←0
Type here to search
33°C Partly cloudy
ENG
21:39
23-09-2022

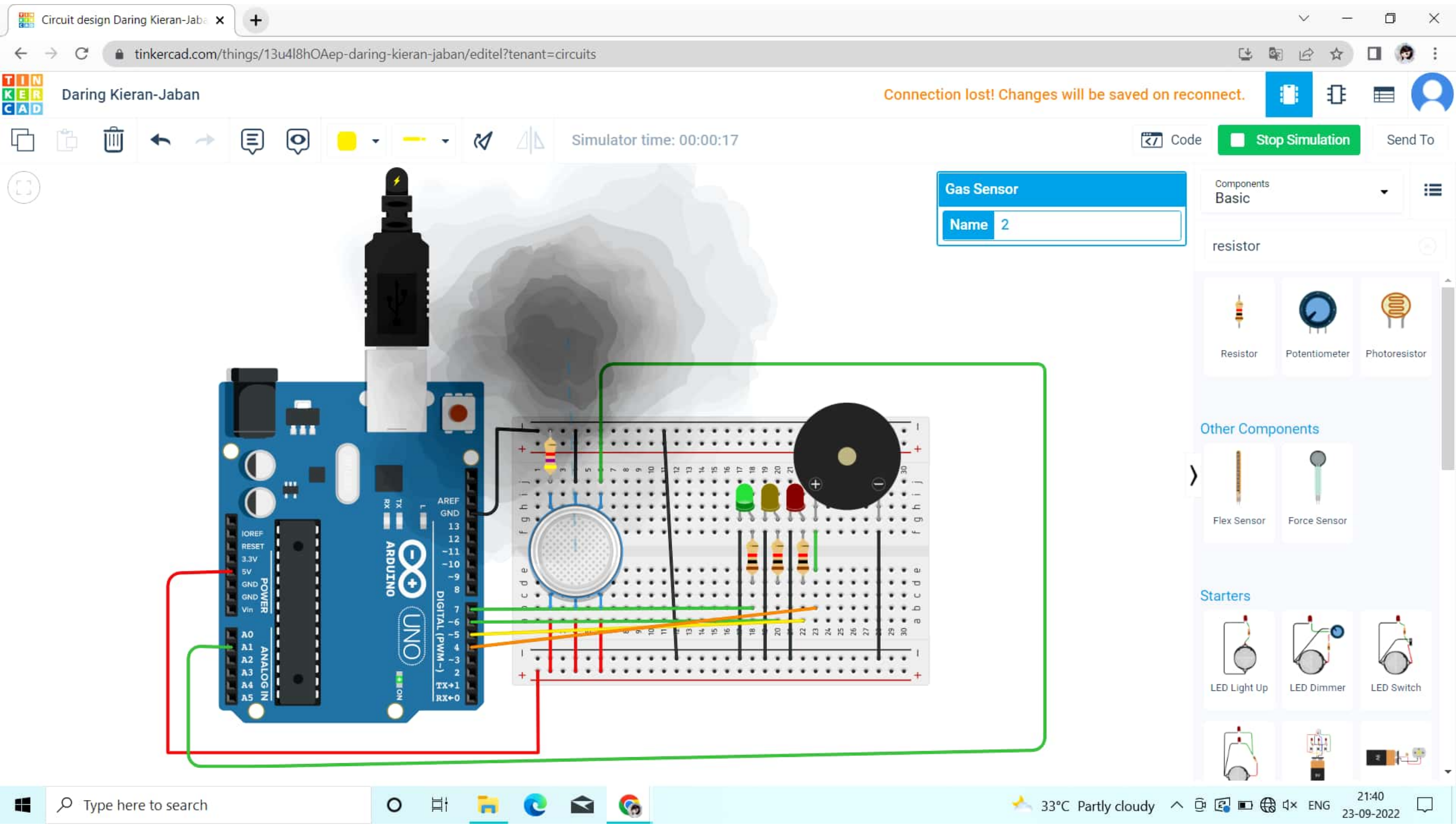
Connection lost! Changes will be saved on reconnect.


Circuit design Daring Kieran-
tinkercad.com/things/13u4l8hOAep-daring-kieran-jaban/editel?tenant=circuits
Daring Kieran-Jaban
Connection lost! Changes will be saved on reconnect.
Simulator time: 00:00:25
Code
Stop Simulation
Send To
Gas Sensor
Name
2
Components
Basic
resistor
Resistor
Potentiometer
Photoresistor
Other Components
Flex Sensor
Force Sensor
Starters
LED Light Up
LED Dimmer
LED Switch
ARDUINO
UNO
Type here to search
33°C Partly cloudy
ENG
21:40
23-09-2022


Circuit design Daring Kieran-Jaba
tinkercad.com/things/13u4l8hOAep-daring-kieran-jaban/editel?tenant=circuits
Daring Kieran-Jaban
Code
Start Simulation
Send To
Text
1 (Arduino Uno R3)
Serial Monitor
Type here to search
33°C Partly cloudy
ENG
21:42
23-09-2022

Connection lost! Changes will be saved on reconnect.

```
int const PINO_SGAS = A1;

int LED_VERDE = 7;

int LED_AMARELO = 6;

int LED_VERMELHO1 = 5;

int LED_VERMELHO2 = 4;

void setup(){

        pinMode(LED_VERDE, OUTPUT);

    pinMode(LED_AMARELO, OUTPUT);

    pinMode(LED_VERMELHO1, OUTPUT);

    pinMode(LED_VERMELHO2, OUTPUT);

    Serial.begin(9600);

}


void loop(){

    int valor = analogRead(PINO_SGAS);

    valor = map(valor, 300, 750, 0, 100);

    digitalWrite(LED_VERDE, HIGH);

        digitalWrite(LED_AMARELO, valor >= 30 ? HIGH : LOW);

    digitalWrite(LED_VERMELHO1, valor >= 50 ? HIGH : LOW);
```



Circuit design Daring Kieran-Jaba

tinkercad.com/things/13u4l8hOAep-daring-kieran-jaban/editel?tenant=circuits

Daring Kieran-Jaban

Connection lost! Changes will be saved on reconnect.

Simulator time: 00:00:17

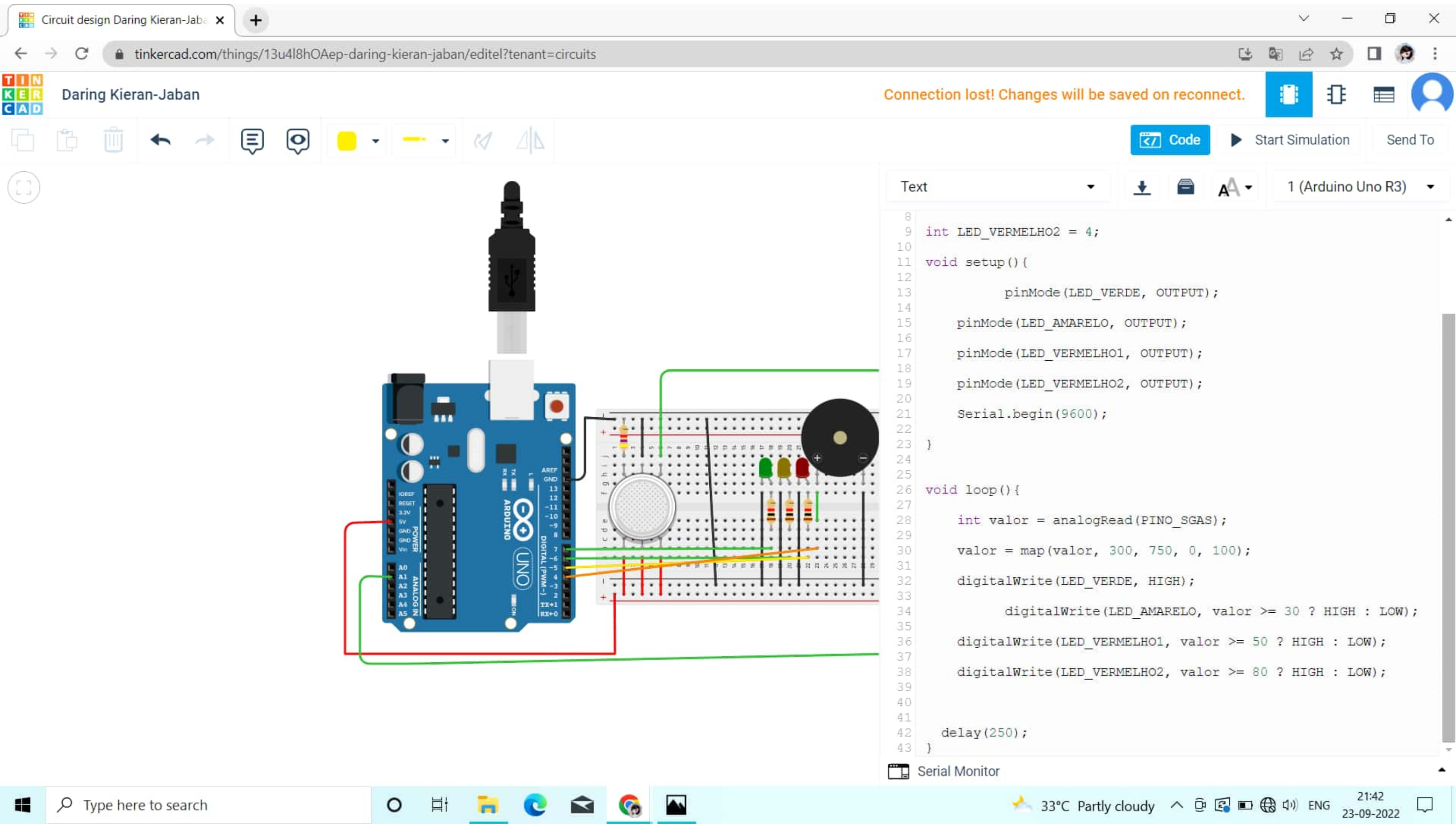
Gas Sensor

Name 2

Components Basic

resistor

Code
Stop Simulation
Send To
Resistor
Potentiometer
Photoresistor
Other Components
Flex Sensor
Force Sensor
Starters
LED Light Up
LED Dimmer
LED Switch
ARDUINO
UNO
AREF
GND
DIGITAL (PWM~)
POWER
ANALOG IN
IOREF
RESET
3.3V
5V
GND
Vin
A0
A1
A2
A3
A4
A5
TX▸1
RX◂0
Type here to search
33°C Partly cloudy
ENG
21:40
23-09-2022



Circuit design Daring Kieran-Jaba
tinkercad.com/things/13u4l8hOAep-daring-kieran-jaban/editel?tenant=circuits
Daring Kieran-Jaban
Code
Start Simulation
Send To
Text
1 (Arduino Uno R3)
Serial Monitor
Type here to search
33°C Partly cloudy
ENG
21:42
23-09-2022

Connection lost! Changes will be saved on reconnect.

```

int LED_VERMELHO2 = 4;

void setup(){

          pinMode(LED_VERDE, OUTPUT);

    pinMode(LED_AMARELO, OUTPUT);

    pinMode(LED_VERMELHO1, OUTPUT);

    pinMode(LED_VERMELHO2, OUTPUT);

    Serial.begin(9600);

}


void loop(){

    int valor = analogRead(PINO_SGAS);

    valor = map(valor, 300, 750, 0, 100);

    digitalWrite(LED_VERDE, HIGH);

          digitalWrite(LED_AMARELO, valor >= 30 ? HIGH : LOW);

    digitalWrite(LED_VERMELHO1, valor >= 50 ? HIGH : LOW);

    digitalWrite(LED_VERMELHO2, valor >= 80 ? HIGH : LOW);



  delay(250);
}
```