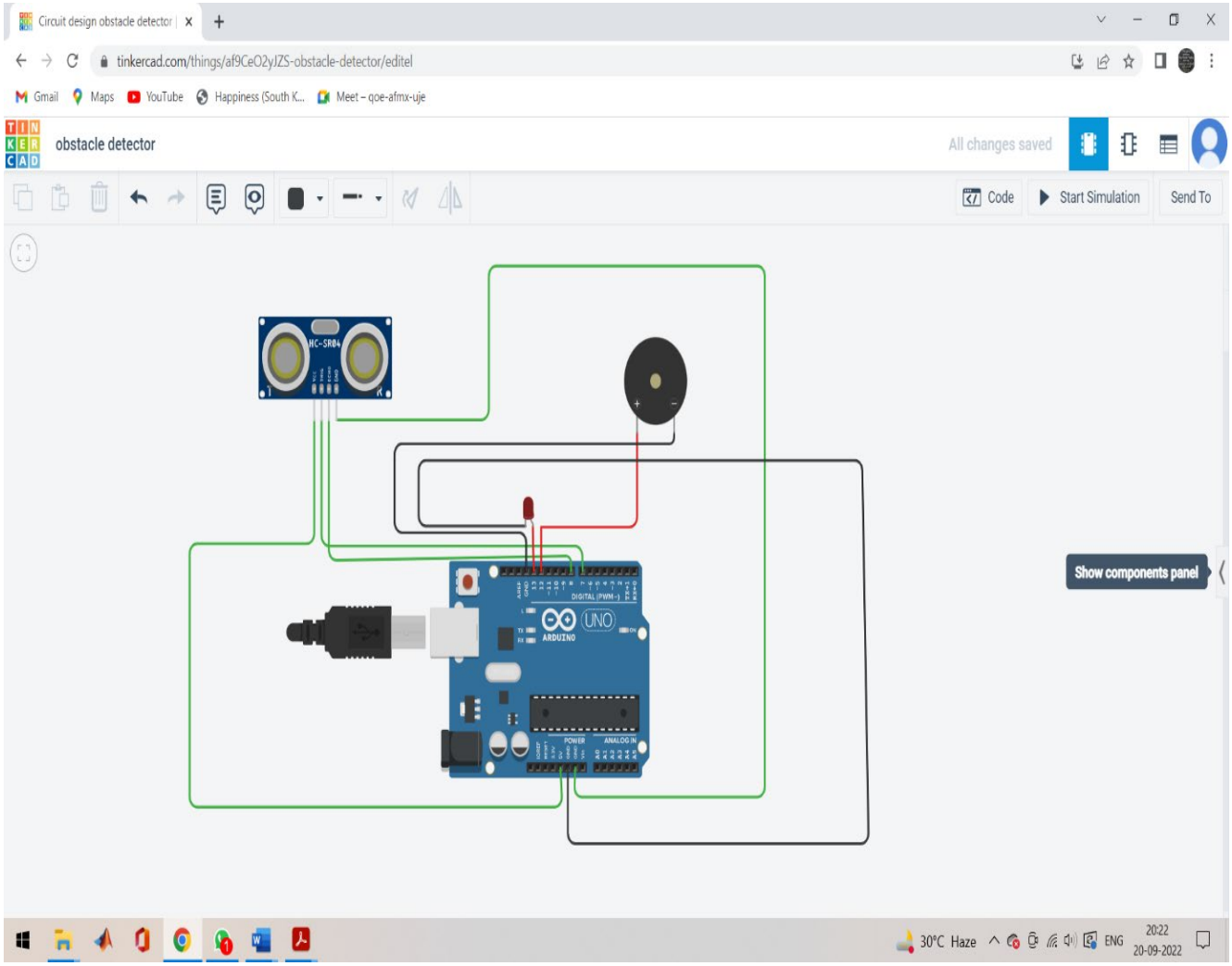
CIRCUIT



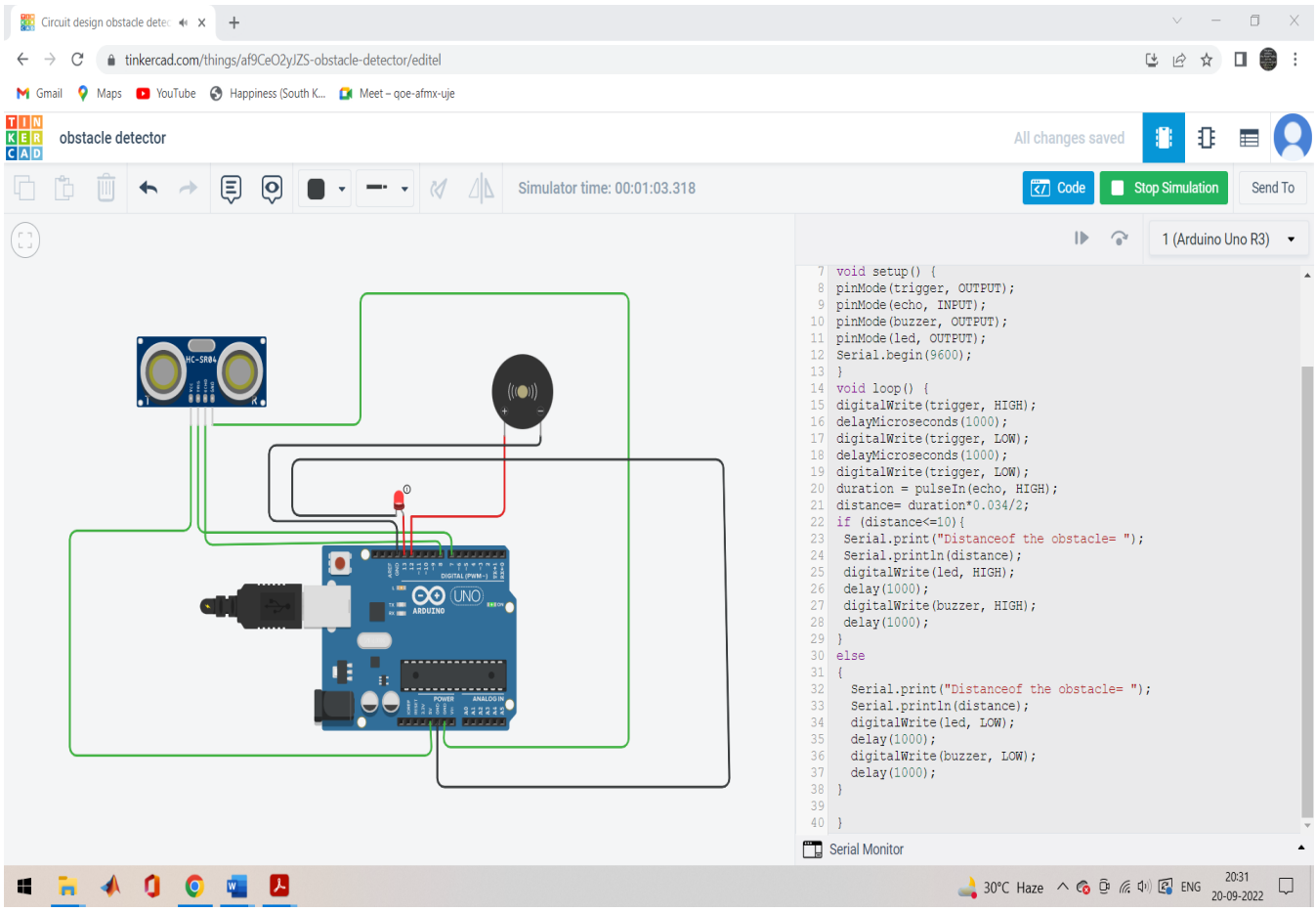
CODE

```
int trigger = 7;

int echo = 8;

int buzzer = 12;

int led= 13;

int duration;
```

```
int distance;
void setup() {
pinMode(trigger, OUTPUT);
pinMode(echo, INPUT);
pinMode(buzzer, OUTPUT);
pinMode(led, OUTPUT);
Serial.begin(9600);
}
void loop() {
digitalWrite(trigger, HIGH);
delayMicroseconds(1000);
digitalWrite(trigger, LOW);
delayMicroseconds(1000);
digitalWrite(trigger, LOW);
duration = pulseIn(echo, HIGH);
distance= duration*0.034/2;
if (distance<=10){
 Serial.print("Distanceof the obstacle= ");
 Serial.println(distance);
 digitalWrite(led, HIGH);
```

```
 delay(1000);
 digitalWrite(buzzer, HIGH);
 delay(1000);
}
else
{
  Serial.print("Distanceof the obstacle= ");
  Serial.println(distance);
  digitalWrite(led, LOW);
  delay(1000);
  digitalWrite(buzzer, LOW);
  delay(1000);
}
}
```

OUTPUT


Circuit design obstacle detec
tinkercad.com/things/af9CeO2yJZS-obstacle-detector/editel
Gmail
Maps
YouTube
Happiness (South K...
Meet – qoe-afmx-uje
obstacle detector
All changes saved
Simulator time: 00:01:03.318
Code
Stop Simulation
Send To
1 (Arduino Uno R3)
HC-SR04
ARDUINO
UNO
void setup() {
pinMode(trigger, OUTPUT);
pinMode(echo, INPUT);
pinMode(buzzer, OUTPUT);
pinMode(led, OUTPUT);
Serial.begin(9600);
}
void loop() {
digitalWrite(trigger, HIGH);
delayMicroseconds(1000);
digitalWrite(trigger, LOW);
delayMicroseconds(1000);
digitalWrite(trigger, LOW);
duration = pulseIn(echo, HIGH);
distance= duration*0.034/2;
if (distance<=10){
Serial.print("Distanceof the obstacle= ");
Serial.println(distance);
digitalWrite(led, HIGH);
delay(1000);
digitalWrite(buzzer, HIGH);
delay(1000);
}
else
{
Serial.print("Distanceof the obstacle= ");
Serial.println(distance);
digitalWrite(led, LOW);
delay(1000);
digitalWrite(buzzer, LOW);
delay(1000);
}
}
Serial Monitor
30°C Haze
ENG
20:31
20-09-2022