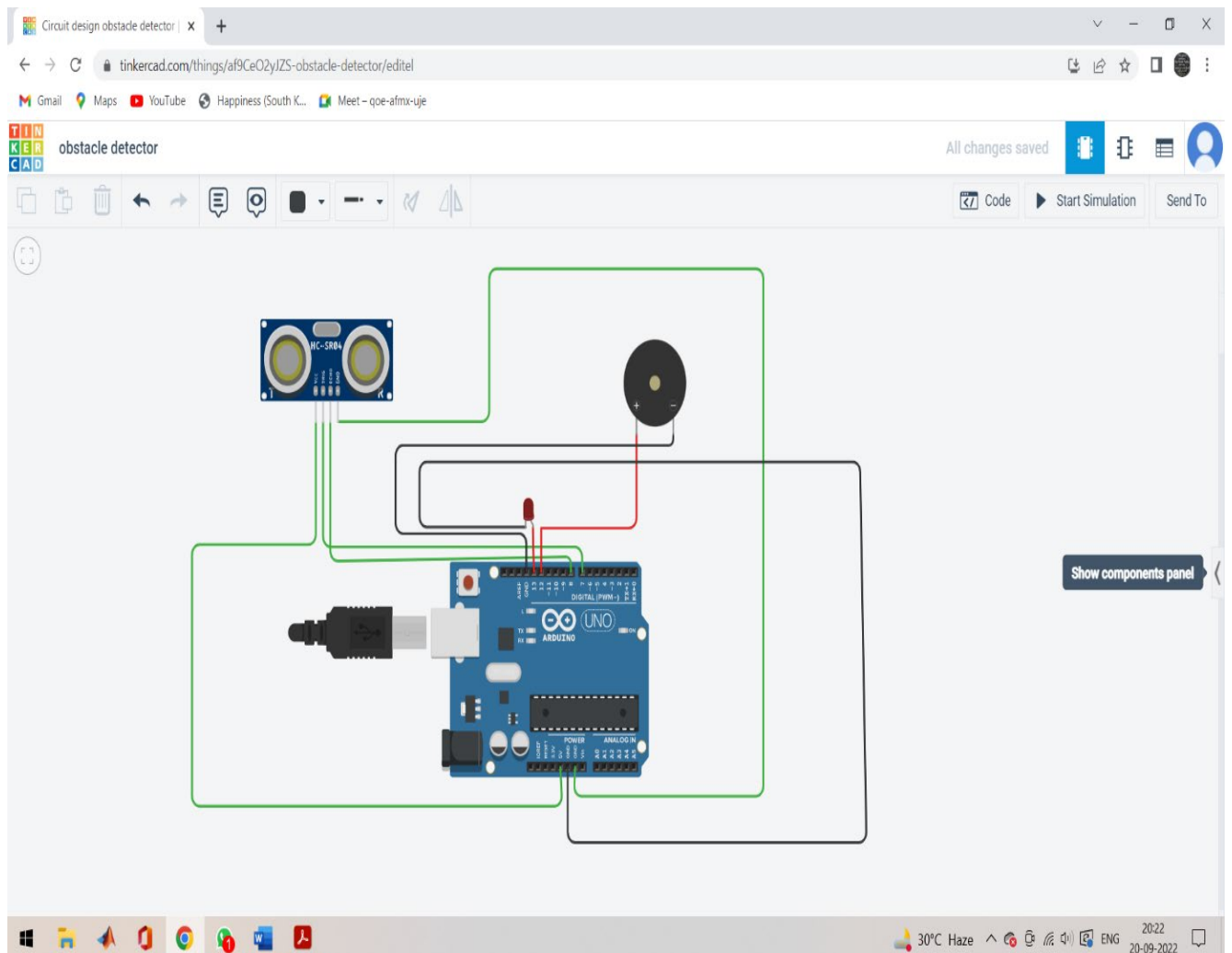


CIRCUIT



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("Distance of the obstacle= ");  
    Serial.println(distance);  
    digitalWrite(led, LOW);  
    delay(1000);  
    digitalWrite(buzzer, LOW);  
    delay(1000);  
}  
}
```

OUTPUT

Circuit design obstacle detector

tinkercad.com/things/af9Ce02yJZS-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)

```
7 void setup() {
8   pinMode(trigger, OUTPUT);
9   pinMode(echo, INPUT);
10  pinMode(buzzer, OUTPUT);
11  pinMode(led, OUTPUT);
12  Serial.begin(9600);
13 }
14 void loop() {
15   digitalWrite(trigger, HIGH);
16   delayMicroseconds(1000);
17   digitalWrite(trigger, LOW);
18   delayMicroseconds(1000);
19   duration = pulseIn(echo, HIGH);
20   distance= duration*0.034/2;
21   if (distance<=10){
22     Serial.print("Distanceof the obstacle= ");
23     Serial.println(distance);
24     digitalWrite(led, HIGH);
25     delay(1000);
26     digitalWrite(buzzer, HIGH);
27     delay(1000);
28   }
29   else
30   {
31     Serial.print("Distanceof the obstacle= ");
32     Serial.println(distance);
33     digitalWrite(led, LOW);
34     delay(1000);
35     digitalWrite(buzzer, LOW);
36     delay(1000);
37   }
38 }
39
40 }
```

Serial Monitor

30°C Haze 2031 20-09-2022