

Make a Smart Home in Tinkercad, using 2+ sensors, Led, Buzzer in single code and circuit

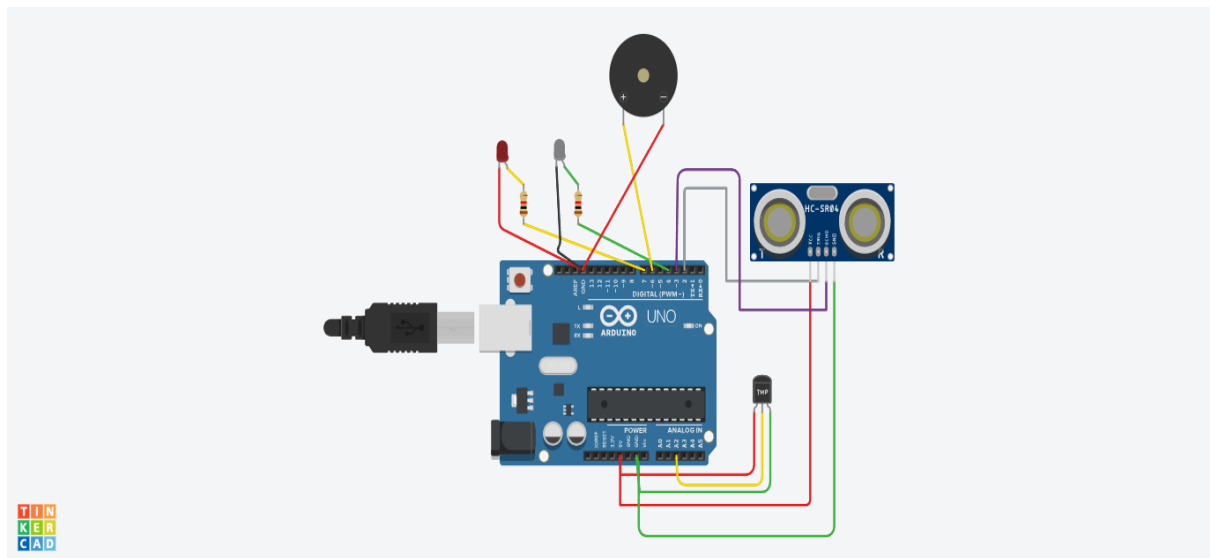
TEAM MEMBERS

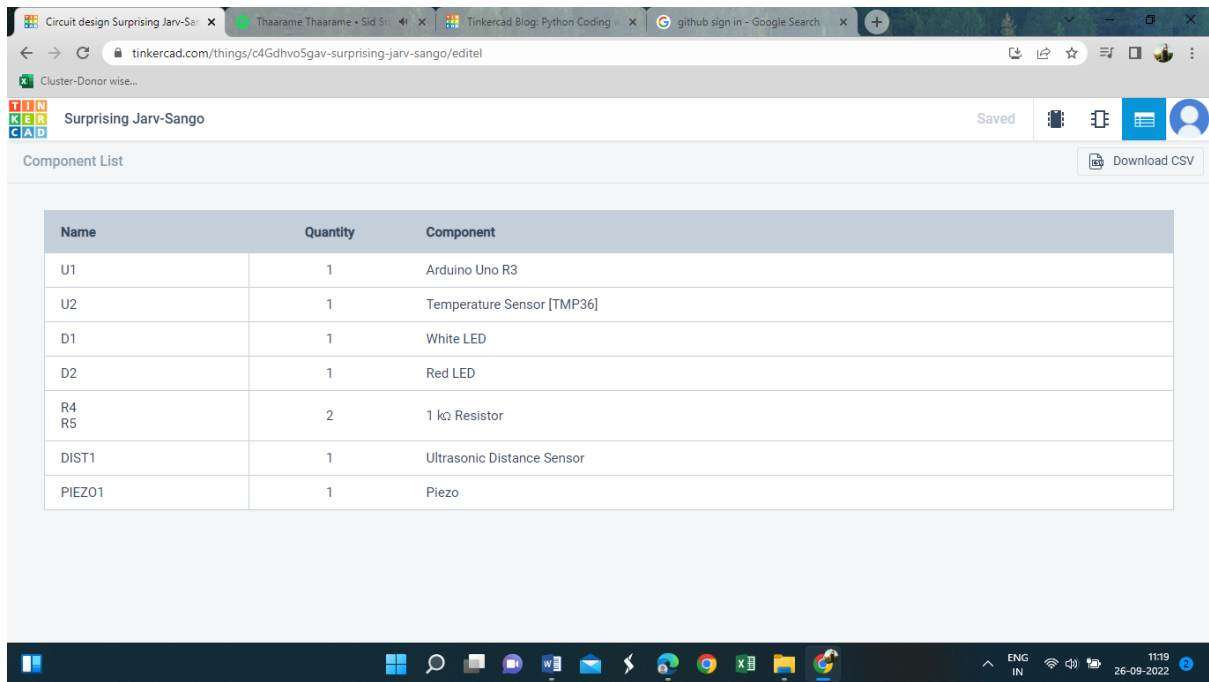
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CODE:

// C++ code

int trig = 2;

int echo = 3;

int led=4;

int buz=6;

int led1=7;

void setup()

{

Serial.begin(9600);

```
pinMode(trig,OUTPUT);
pinMode(echo,INPUT);
pinMode(led,OUTPUT);
pinMode(led1,OUTPUT);
pinMode(buz,OUTPUT);
}

void loop()
{
// temperature sensor
double t = analogRead(A2);
Serial.print("Analog data: ");
Serial.println(t);
double n= t/1024;
double v=n*5;
Serial.print("Voltage data: ");
Serial.println(v);
double c=v-0.5;
```

```
double k=v*100;
Serial.print("Temperature value:");
Serial.println(k);
delay(1000);
//ultrasonic sensor
digitalWrite(trig,LOW);
digitalWrite(trig,HIGH);
delayMicroseconds(10);
digitalWrite(trig,LOW);
float dur=pulseIn(echo,HIGH);
float dist=(dur*0.0343)/2;
Serial.print("Distance in cm : ");
Serial.println(dist);
//led
if(dist>=100)
{
digitalWrite(led,HIGH);
```

```
}  
else  
{  
digitalWrite(led,LOW);  
}  
//buzzer  
digitalWrite(buz,LOW);  
digitalWrite(led1,LOW);  
delay(1000);  
digitalWrite(buz,HIGH);  
digitalWrite(led1,HIGH);  
delay(1000);  
}
```

TINKER CAD LINK:

<https://www.tinkercad.com/things/c4Gdhvo5gav-surprising-jarv-sango>