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

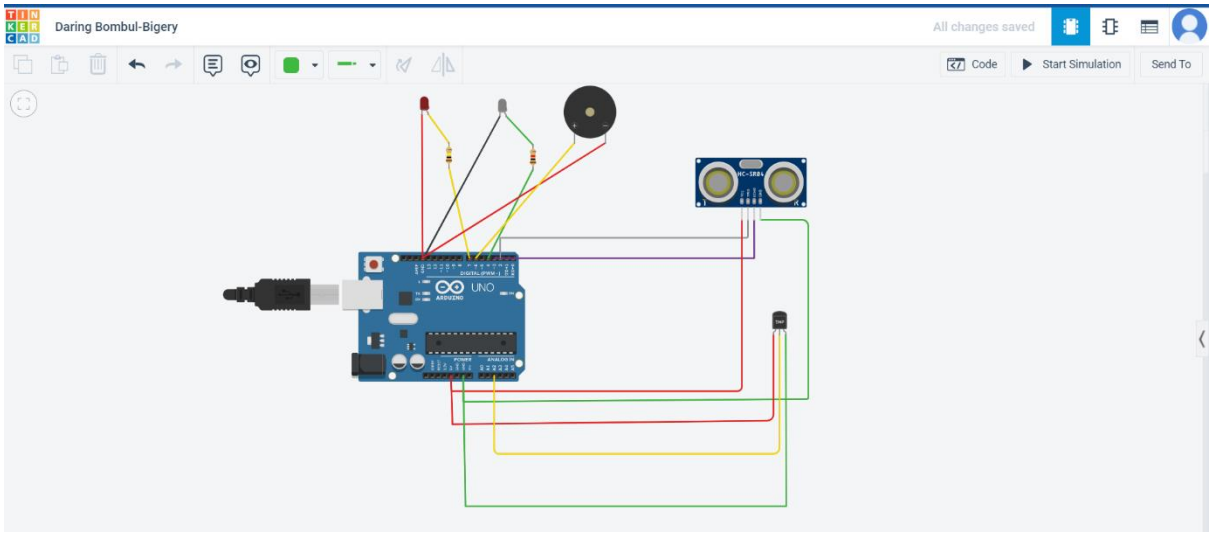
Team Members:

P.Nivethitha

S.Priyanka

V.Lavanya

M.D.Priyadarshini



Name	Quantity	Component
Uu1	1	Arduino Uno R3
DISTDIST 1	1	Ultrasonic Distance Sensor
Uu2	1	Temperature Sensor [TMP36]
DR2	1	Red LED
PIEZOPiezo1	1	Piezo
RR1	1	100 kΩ Resistor
RR2	1	1 kΩ Resistor
DD1	1	White LED

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);
//ultasonic 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);
}
```

TINKERCARD LINK:

https://www.tinkercad.com/things/eB9abRO5Pdd