ASSIGNMENT 1

Build a smart home in Tinkercad with 2 sensors, an Led, buzzer and submit it.

CODE

```
const int pingPin = 6;
const int echoPin = 7;
double tempPin=A0;
 void setup()
 {
Serial.begin(9600);
 pinMode(LED_BUILTIN, OUTPUT);
pinMode(3,OUTPUT);
 }
void loop()
{
 long distcm,duration;
 double temp;
 temp=analogRead(tempPin);
if(temp>70)
{
        digitalWrite(3, HIGH);
        }
        else { digitalWrite(3,LOW);
        }
        delay(1000);
         pinMode(pingPin, OUTPUT);
        digitalWrite(pingPin, LOW);
         delayMicroseconds(2);
```

```
digitalWrite(pingPin, HIGH);

delayMicroseconds(10);

digitalWrite(pingPin, LOW);

pinMode(echoPin, INPUT);

duration = pulseIn(echoPin, HIGH);

distcm = duration*0.0343/2;

}

}
```

CIRCUIT CONNECTION