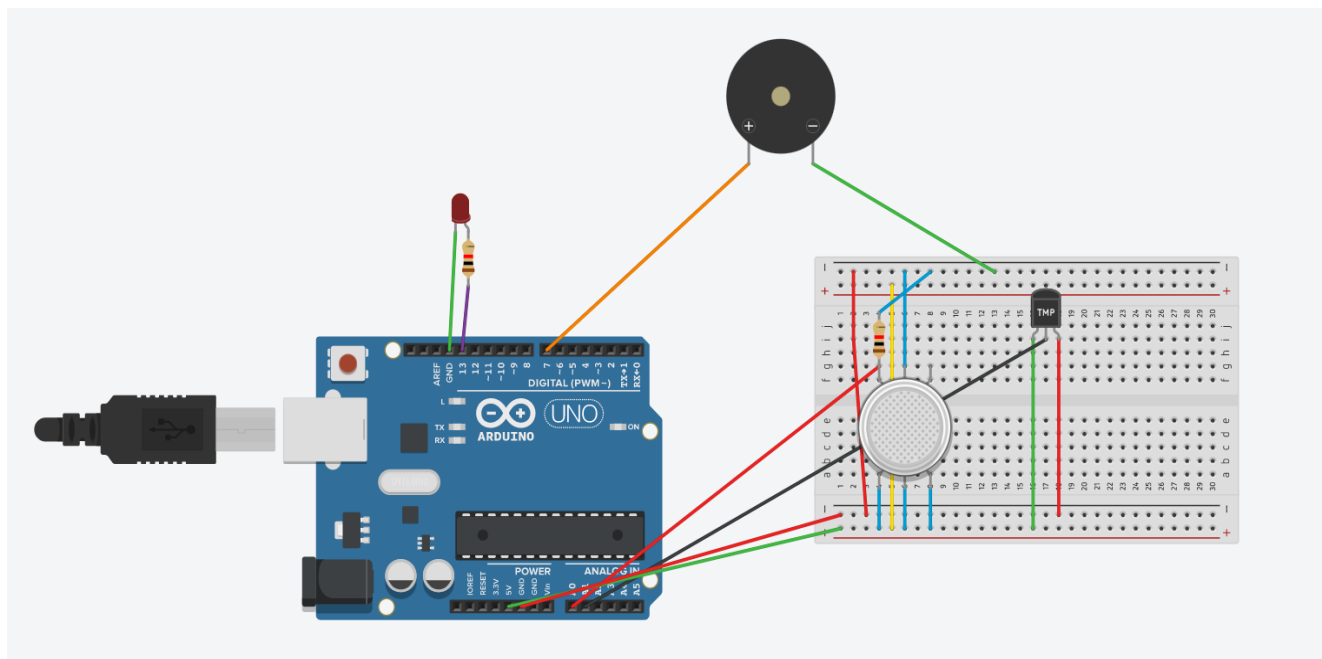# IOT BASED SMART FARMING-ASSIGNMENT-1

KAAVYA E - 113219031065

Build a Smart home in tinkercad

Use atleast 2 sensors, led, buzzer in a circuit. Simulate in a single code.

CODE:

```
float temp;

float vout;

float vout1;

int LED=13;

int gasSensor;

int piezo=7;
```

```arduino
void setup()
{
 pinMode(A0,INPUT);
 pinMode(A1,INPUT);
 pinMode(LED,OUTPUT);
 pinMode(piezo,OUTPUT);
 Serial.begin(9600);
}
void loop()
{
 vout=analogRead(A1);
 vout1=(vout/1023)*5000;
temp=(vout1-500)/10;
 gasSensor=analogRead(A0);
 if(temp>=80)
 {
  digitalWrite(LED,HIGH);
 }
 else
 {
  digitalWrite(LED,LOW);
 }
```

```arduino
   if(gasSensor>=100)
   {
     digitalWrite(piezo,HIGH);
   }
   else
   {
      digitalWrite(piezo,LOW);
   }
   Serial.print("Temp DegreeC= ");
    Serial.print(" ");
    Serial.print(temp);
    Serial.print("\t");
    Serial.print("GasSensor= ");
    Serial.print(" ");
    Serial.print(gasSensor);
  Serial.println();
  delay(1000);
 }
```