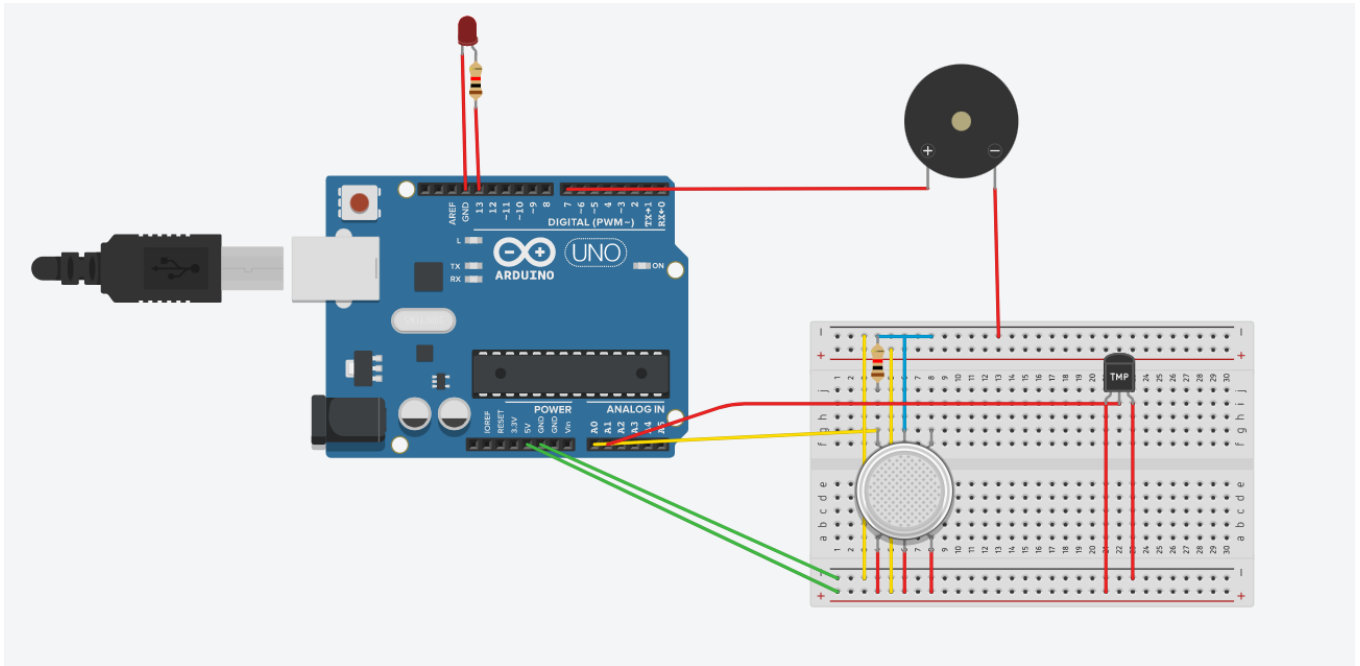


# IoT BASED SMART FARMING – ASSIGNMENT 1

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## BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND ENGINEERING

Build a smart home in tinkercad. Use at least 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;  
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);
  }
  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);  
}
```