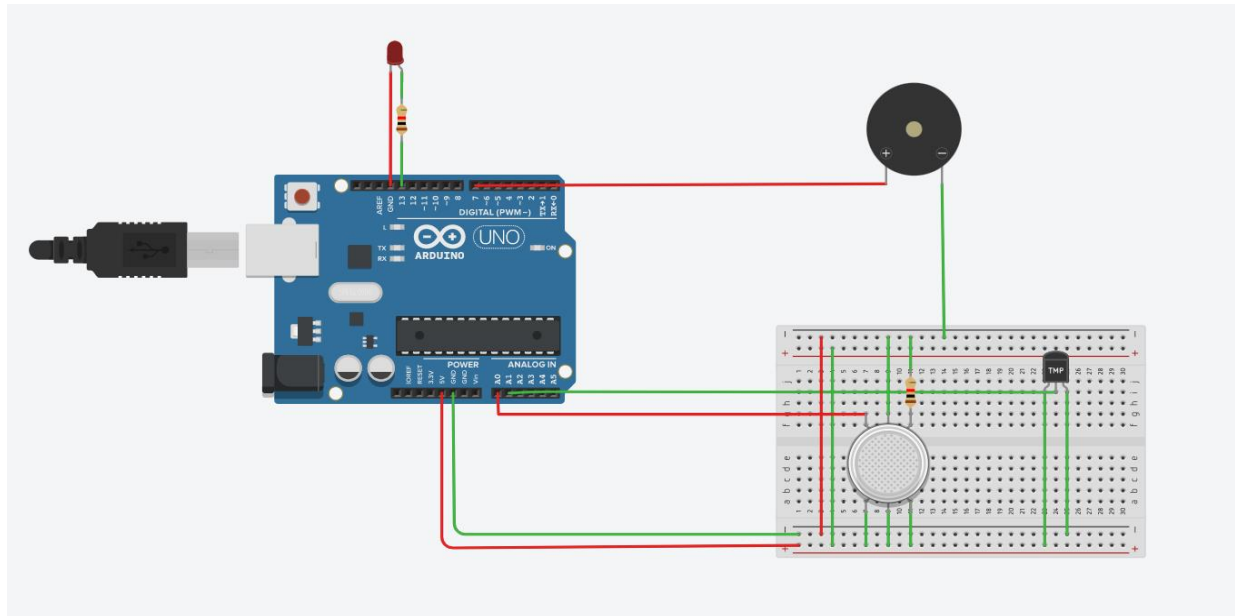


IOT BASED SMART FARMING -ASSIGNMENT 1

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Build a smart home in tinkercard. 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;
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);  
}
```