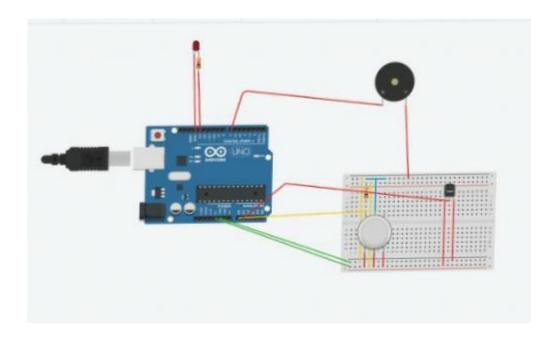
## **IOT BASED SMART FARMING – ASSIGNMENT 1**

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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);
}
```