

ASSIGNMENT1

OBJECTIVE:

To make a Smart Home in Tinkercad ,using 2 sensors,LED,Buzzer in single code and circuit.

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;
```

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```
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("in DegreeC=");

Serial.print(" ");

Serial.print(temp);

Serial.print("\t");

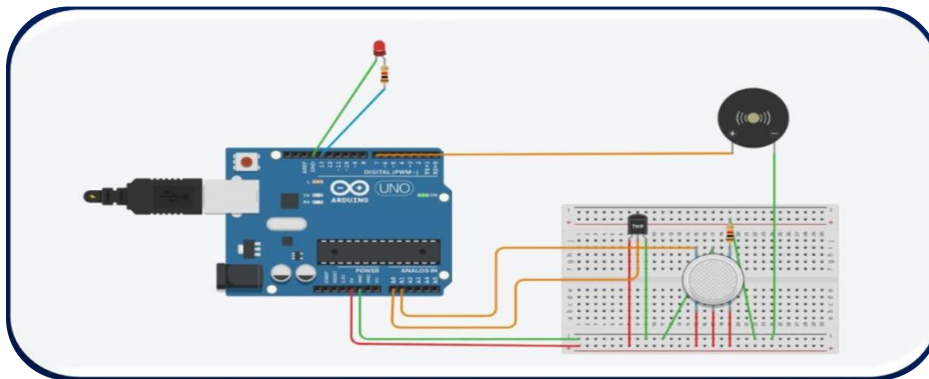
Serial.print("GasSensor=");

Serial.print(" ");
```

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```
Serial.print(gasSensor);  
  
Serial.print();  
  
delay(1000);  
  
}
```

SIMULATION:



OUTPUT:

<http://www.tinkercad.com/things/iWe6slg9fYH>