

## **IOT ASSIGNMENT – I**

**Assignment: - Smart Home Automation**

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### **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('In Degree C: ');  
Serial.print("    ");  
Serial.print(temp);  
Serial.print("\t");  
Serial.print("    ");  
Serial.print("Gas Sensor: ");  
Serial.print("    ");  
Serial.print(gasSensor);
```

```
Serial.println();  
  
delay(1000);  
  
}
```

## OUTPUT:-

