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:-