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:-