ASSIGNMENT

Assignment - 1

| BATCH | B12-6A2E | | |
|---------|---|---|--------------|
| TEAM ID | PNT2022TMID01722 | | |
| TEAM | GOWTHAMRAJ | - | 7376191EC148 |
| MEMBERS | (Team Lead) | | |
| | KARTHICK RAJ BHARATHI | - | 7376191EC181 |
| | KARUNRAJ | - | 7376191EC184 |
| | KAVI RAAJ | - | 7376191EC185 |
| | | | |
| PROJECT | Gas Leakage Monitoring & Alerting System for Industries | | |

Submitted By

KARTHICK RAJ BHARATHI R - 7376191EC181

Code:

```
int led = 8;
                                                        {
int trig = 2;
                                                          digitalWrite(led,LOW);
int echo = 5;
                                                        }
int buzzer = 4;
                                                        digitalWrite(trig,LOW);
                                                        digitalWrite(trig,HIGH);
void setup()
                                                        delayMicroseconds(10);
                                                        digitalWrite(trig,LOW);
{
 Serial.begin(9600);
                                                        float dur = pulseIn(echo,HIGH);
                                                        float dist = (dur * 0.343)/2;
 pinMode(led,OUTPUT);
 pinMode(trig,OUTPUT);
                                                        Serial.print("Distance");
                                                        Serial.println(dist);
 pinMode(echo,INPUT);
 pinMode(buzzer,OUTPUT);
                                                        if(dist >= 17)
 pinMode(7,INPUT);
                                                        {
}
                                                          digitalWrite(buzzer,HIGH);
                                                        }
void loop()
                                                        else
{
                                                        {
 double a = analogRead(A2);
                                                          digitalWrite(buzzer,LOW);
 double v = a / 1024;
                                                        }
 double tvolt = v * 5;
                                                        int m=digitalRead(7);
 double o = tvolt - 0.5;
                                                        Serial.print("motion detected");
 double t = o * 100;
                                                        Serial.println(m);
 Serial.print("Temperature in degree");
                                                        if (m==1) {
 Serial.println(t);
                                                         Serial.println("yes");
 if(t >= 50)
                                                        }
                                                        else {
  digitalWrite(led,HIGH);
                                                         Serial.println("no");
 }
                                                       }
 else
                                                       }
```

Circuit:

