

## Gas Leakage monitoring & Alerting system for Industries

### TEAM MEMBERS

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```
int t=2;
int e=3;
void setup()
{
    Serial.begin(9600);
    pinMode(t,OUTPUT);
    pinMode(e,INPUT);
    pinMode(12,OUTPUT);
}
void loop()
{
    //ultrasonic sensor
    digitalWrite(t,LOW);
    digitalWrite(t,HIGH);
    delayMicroseconds(10);
    digitalWrite(t,LOW);
    float dur=pulseIn(e,HIGH);
    float dis=(dur*0.0343)/2;
    Serial.print("Distance is: ");
    Serial.println(dis);

    //LED ON
    if(dis>=100)
    {
```

```

        digitalWrite(8,HIGH);

        digitalWrite(7,HIGH);
    }
    //Buzzer For ultrasonic Sensor
    if(dis>=100)
    {
        for(int i=0; i<=30000; i=i+10)
        {
            tone(12,i);
            delay(1000);
            noTone(12);
            delay(1000);
        }
    }
    //Temperate Sensor
    double a= analogRead(A0);
    double t=((a/1024)*5)-0.5)*100;
    Serial.print("Temp Value: ");
    Serial.println(t); delay(1000);
    //LED ON
    if(t>=100)
    {
        digitalWrite(8,HIGH);
        digitalWrite(7,HIGH);
    }
    //Buzzer for Temperature Sensor
    if(t>=100)
    {
        for(int i=0; i<=30000; i=i+10)
        {
            tone(12,i);

```

```
        delay(1000);  
        noTone(12);  
        delay(1000);  
    }  
}  
//LED OFF  
If(t<100)  
{  
    digitalwrite(8,LOW);  
    digitalwrite(7,LOW);  
}  
}
```