**GAS LEAKAGE MONITORING AND ALERTING SYSTEM**

ASSIGNMENT-4

**NAME**: SOPHIA GRACE R

**ROLLNO**: 310519106075

**TEAM ID**: PNT2022TMID26860

**CODE:**

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);

}

}

BLOCK DIAGRAM:

