

Assignment 4

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| Project Name | GAS LEAKAGE MONITORING AND ALERTING SYSTEM |
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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);  
}  
}
```

