# Assignment-1

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| Assignment Date | 19 September 2022 |
| Student Name | Aravindh S |
| Student Roll Number | 717819F201 |
| Maximum Marks | 2 Marks |

# OBJECTIVE:

To improve the quality of life and convenience in home as well as safety and

Security.

# COMPONENTS REQUIRED:

1. 2+ sensors

# Led

1. Buzzer in single code

# Circuit CODE:

int PIR=0; int photo=0; int tmp=0; int gas=0; void main()

{

pinMode(A2,INPUT); pinMode(2,INPUT); pinMode(A1,INPUT); pinMode(A0,INPUT); Serial.begin(9600); pinMode(3,OUTPUT); pinMode(8,OUTPUT);

}

Void loop()

{

Photo=analogRead(A2); PIR=digitalRead(2);

tmp=(-40+0.488155\*(analogRead(A1)-20)); gas=analogRead(A0);

Serial.Println(gas); If(PIR==1){

While(PIR==1){

digitalWrite(3,HIGH); delay(100);//Wait for 100 millisecond(s) digitalWrite(3,LOW);

delay(100);//Wait for 100 millisecond(s) PIR=digitalRead(2);

}

}

If(photo>=500){ digitalWrite(3,HIGH);

}else{ digitalWrite(3,LOW);

}

If(500>gas){ No Tone(8);

}else{

tone(8,523,1000);//play tone 60(C5=523Hz) delay(100);//Wait for 100 millisecond(s) noTone(8);

delay(100);//Wait for 100 millisecond(s)

}

}

# OUTPUT: