

OBJECTIVE:

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

COMPONENTS REQUIRED:

- 1. 2+ sensors**
- 2. Led**
- 3. Buzzer in single code**
- 4. 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;

