<u>Assignment-1</u>

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{
```
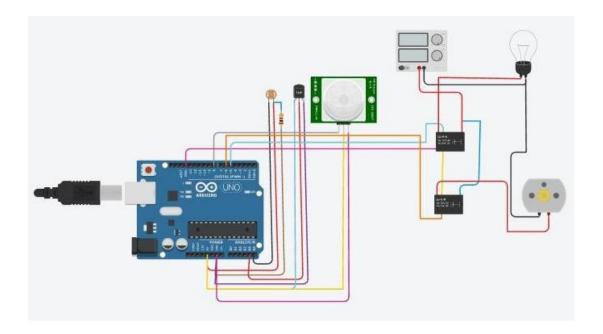
```
tone(8,523,1000);//play tone 60(C5=523Hz)

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

noTone(8);

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

}

}
```

OUTPUT: