# **Assignment-1**

### **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);
 pinMode(A0,INPUT);
 pinMode(3,OUTPUT);
 pinMode(8,OUTPUT);
}
```

Roll No: 717819F239 Name: RAJESH KUMAR M

```
{
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{
```

Roll No: 717819F239 Name: RAJESH KUMAR M

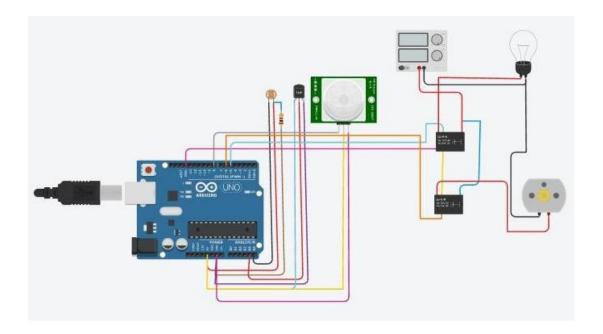
```
tone(8,523,1000);//play tone 60(C5=523Hz)

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

noTone(8);

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

## **OUTPUT:**



Roll No: 717819F239 Name: RAJESH KUMAR M