

## **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);
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:

