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);
}
```

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```
{
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{
```

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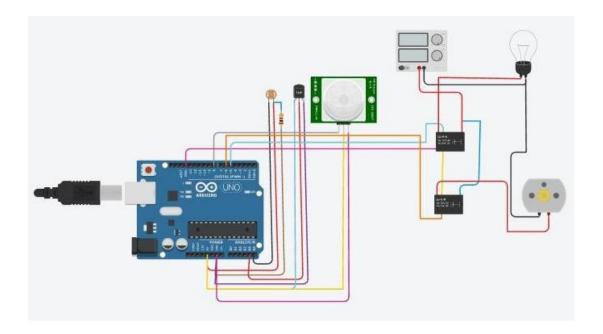
```
tone(8,523,1000);//play tone 60(C5=523Hz)

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

noTone(8);

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

OUTPUT:



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