```
int led=13;

int PhotoDiode=2;

int pir=5;

int buzz=3;

void setup()

{

  pinMode(led, OUTPUT);

  pinMode(pir, INPUT);

        pinMode(PhotoDiode, INPUT_PULLUP);

}

void ledFunction(){

  if(digitalRead(PhotoDiode)==HIGH)

    {

    digitalWrite(led, HIGH);

        }

        else

        {

                digitalWrite(led, LOW);

        }

}

void buzzer(){

  if(digitalRead(pir)==HIGH)

    {

  analogWrite(10, random(255));


    tone(buzz,50);

    delay(200);

        }

        else

        {

        noTone(buzz);
```

```arduino
    delay(1000);


   }}
void loop()
{
  ledFunction();
  Serial.print(pir);
  buzzer();


}
```