```
// C++ code
//
int Led1=12;
int Led2=2;
int buzzer=7;
void setup()
{
pinMode(Led1,OUTPUT);
pinMode(Led2,OUTPUT);
pinMode(buzzer,OUTPUT);
Serial.begin(9600);
pinMode(4,INPUT);
}
void loop()
{
int ldr;
int gas;
int pir;
// ldr sensor and pir sensor
 ldr=analogRead(A0);
 Serial.print("ldr value:");
 Serial.println(ldr);
 pir=digitalRead(4);
 Serial.print("motion deteted:");
 Serial.println(pir);
```

```
if(ldr<=200)
  digitalWrite(Led1,HIGH);
  Serial.println("Led is ON");
      if(pir==1)
      {
       digitalWrite(Led2,HIGH);
       Serial.println("Led2 is OFF");
      }
 }
 else
 {
  digitalWrite(Led1,LOW);
  Serial.println("Led1 is OFF");
}
delay(1000);
// gas sensor
gas=analogRead(A1);
Serial.print("gas value;");
 Serial.println(gas);
if(gas>=100)
 {
  digitalWrite(buzzer,HIGH);
  Serial.println("gas level is too high");
 }
```

```
else
{
digitalWrite(buzzer,LOW);
   Serial.println("gas level is normal");
}
```