```cpp
#include <LiquidCrystal.h>

LiquidCrystal lcd(12, 13, 11, 10, 9, 8);
int pirPin=7;
int pirInput=0;
int bulbPin=6;
int photoValue=0;
int tempReading=0,temp1=0,temperature=0;
int fanPin=5;
int gasReading=0;
int greenLed=4;
int yellowLed=3;
int redLed=2;
int piezoPin=0;
void scrollScreenSaver() {

        lcd.clear() ;
        lcd.setCursor(15, 0);
        lcd.print("Welcome");
        lcd.setCursor(15, 1);
        lcd.print("to my home");

   for (int positionCounter = 0; positionCounter < 22; positionCounter++) {
                lcd.scrollDisplayLeft();
                delay(50);
        }
}
void setup()
{
  lcd.begin(16, 2);
  lcd.print("hello, world!");
```

```arduino
  pinMode(pirPin, INPUT);

  pinMode(bulbPin, OUTPUT);

  pinMode(greenLed,OUTPUT);

  pinMode(yellowLed,OUTPUT);

  pinMode(redLed,OUTPUT);

  pinMode(piezoPin,OUTPUT);


  Serial.begin(9600);


}


void loop()
{
  lcd.setCursor(0, 1);

  lcd.print(millis() / 1000);

  pirInput=digitalRead(pirPin);

  photoValue=analogRead(A0);

  Serial.println(photoValue);

  tempReading=analogRead(A1);

  temperature=(5000.0/1024.0*tempReading/10.0);

  Serial.println(temperature);


  gasReading=analogRead(A2);

  Serial.println(gasReading);

  Serial.println("........................");

  digitalWrite(greenLed,gasReading>100 ? HIGH : LOW);

  digitalWrite(yellowLed,gasReading>200 ? HIGH : LOW);

  digitalWrite(redLed,gasReading>300 ? HIGH : LOW);



  if(pirInput==HIGH)
```

```
{
  lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("Motion Detected");
  if(photoValue<300)
  {
    digitalWrite(bulbPin,HIGH);
    lcd.setCursor(0,1);
    lcd.print("Light is on");
    delay(1000);
  }
  if(temperature>25)
  {
    digitalWrite(fanPin,HIGH);
    lcd.setCursor(0,1);
    lcd.print("              ");
    lcd.setCursor(0,1);
    lcd.print("Fan is on");
    delay(1000);
  }

}
else
{
  scrollScreenSaver() ;
}
/*digitalWrite(13, HIGH);
delay(1000);
digitalWrite(13, LOW);
delay(1000);
}
```