Source code

#include <LiquidCrystal.h> //Library include lcd  
int c=0; //Initialize counter   
LiquidCrystal lcd(8,9,10,11,12,13); //Initialize pins for lcd

void setup()

{  
pinMode(16,INPUT); //declare pin 16 as input (tsop-A) pinMode(17,INPUT); //declare pin 17 as input (tsop-B) pinMode(11,OUTPUT); //declare pin 11 as Output(LED RED) pinMode(12,OUTPUT); //declare pin 12 as Output(LED Blue) pinMode(13,OUTPUT); //declare pin 13 as Output(LED WHITE) pinMode(2,OUTPUT); //declare pin 2 as Output (RELAY) Serial.begin(9600); //serial communication with computer lcd.begin(16,2); //declare LCD as 16x2 type  
lcd.clear(); // clear Garbage values on the screen lcd.write("calibrate sensor ");   
 delay(4000);  
lcd.setCursor(0,1); //set lcd cursor to second line  
lcd.write("please wait..");  
delay(5000); //delay in ms  
 lcd.blink(); //cursor blink  
delay(2000);  
lcd.clear();  
lcd.write("System Ready...");  
 delay(1000);  
 lcd.blink();  
}  
void loop() //program logic starts  
{  
 a:  
 if(c>0)  
 { digitalWrite(2,1); }  
 else  
 { digitalWrite(2,0); }

digitalWrite(12,0);  
 digitalWrite(13,0);  
 digitalWrite(11,0);   
 if(pulseIn(16,0)==LOW)  
 {  
 digitalWrite(11,1);  
 if(pulseIn(17,0)==LOW)

{

digitalWrite(12,1);

digitalWrite(13,1);   
 c++;  
 Serial.print("Total persons Inside ");  
 Serial.println(c);  
 lcd.print("Motion detected");  
 lcd.clear();  
 lcd.print("Total persons:");  
 lcd.setCursor(0,1);  
 lcd.print(c);  
 }  
 else  
 {   
 digitalWrite(11,0);  
 digitalWrite(12,0);  
 digitalWrite(13,0);  
 goto a;  
 }  
 }  
else  
{  
 if(pulseIn(17,0)==LOW)  
 {  
 digitalWrite(12,1);  
 if(pulseIn(16,0)==LOW)

{  
 digitalWrite(11,1);  
 digitalWrite(13,1);  
 c--;  
 Serial.print("Total persons Inside ");  
 Serial.println(c);  
 lcd.print("Motion detected");  
 lcd.clear();  
 lcd.print("Total persons:");  
 lcd.setCursor(0,1);  
 lcd.print(c);  
 }  
 else  
 {   
 digitalWrite(11,0);  
 digitalWrite(12,0);  
 digitalWrite(13,0);  
 goto a;  
 }  
 }  
 }  
delay(10);  
}

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