# Description:

Program to display relay LEDs in a pattern.

# Source Code:

// include the library code:

#include <LiquidCrystal.h>

// initialize the library with the numbers of the interface pins

LiquidCrystal lcd(11,12,14,15,16,17);

void setup()

{

//Set pin number 10 as digital out where relay 1 is connected

pinMode(10,OUTPUT);

//Set pin number 9 as digital out where relay 2 is connected

pinMode(9,OUTPUT);

//Set pin number 8 as digital out where relay 3 is connected

pinMode(8,OUTPUT);

//SIM808 wakeup connected on pin 13 in IomaTic board

pinMode(13,OUTPUT);

lcd.setCursor(0,0);

//Print the message as metioned cursor location

lcd.print(" IomaTic ");

//Set cursor at first character/coloumn of first line/row

lcd.setCursor(0,1);

//Print the message as metioned cursor location

lcd.print("LED Test....");

//Initialize a serial communication with baud rate 9600

Serial.begin(9600);

delay(1000);

}

void loop()

{

digitalWrite(10, HIGH);

delay(500);

digitalWrite(10, LOW);

delay(500);

digitalWrite(9, HIGH);

delay(500);

digitalWrite(9, LOW);

delay(500);

digitalWrite(8, HIGH);

delay(500);

digitalWrite(8, LOW);

delay(500);

}

# Libraries:

No additional libraries required.

# Functions:

pinMode(10,Output):

This sets pin number 10 as digital out for relay 1. Pin 9 and 8 are used as digital out for relay 2 and 3 respectively.

digitalWrite(10,HIGH):

Generates 5v to pin 10.

digitalWrite(10,LOW):

Generates 0v to pin 10.