# Description:

A program use LDR sensor on the Iomatic IoT Development kit.

# Source Code:

//include library coode

#include <LiquidCrystal.h>

//ldr pin is connected to A5 on Iomatic

const int ldrPin = A5;

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

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

void setup()

{

//Initialize the LCD in 16x2 mode

lcd.begin(16, 2);

delay(1000);

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

lcd.setCursor(0,0);

//Print the message as metioned cursor location

lcd.print(" IomaTic ");

//Initialize a serial communication with baud rate 9600

Serial.begin(9600);

delay(1000);

pinMode(ldrPin, INPUT);

}

void loop()

{

int ldrStatus = analogRead(ldrPin);

if (ldrStatus <= 1000)

{

Serial.print("Its DARK: ");

Serial.println(ldrStatus);

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

lcd.setCursor(0,1);

//Print the message as metioned cursor location

lcd.print("Its DARK: ");

lcd.print(ldrStatus);

}

else

{

Serial.print("Its BRIGHT: ");

Serial.println(ldrStatus);

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

lcd.setCursor(0,1);

//Print the message as metioned cursor location

lcd.print("Its BRIGHT: ");

lcd.print(ldrStatus);

}

delay(1500);

lcd.clear();

}

# Libraries:

No additional libraries required.

# Functions:

analogRead(ldrPin):

This function reads the readings received from the LDR and can be used to display its value. In our program the values range from 0 to 1023.