# Description:

Writing data to serial port, try writing digital/analog/DHT11 values on serial port (IomaTic to PC).

# Source Code:

//include the DHT11 library code

#include <SimpleDHT.h>

// declaring DHT11 interface pins and input variable

int dhtval = 6;

SimpleDHT11 dht11(dhtval);

void setup()

{

Serial.begin(9600);

}

void loop()

{

byte temperature = 0;

byte humidity = 0;

int err = SimpleDHTErrSuccess; //initialize error variable

if ((err = dht11.read(&temperature, &humidity, NULL)) != SimpleDHTErrSuccess)

{

Serial.print("Read DHT11 failed, err="); //display error code if error occurs

Serial.println(err);

delay(1000);

return;

}

Serial.print((int)temperature); //prints DHT11 temperature value to Serial Monitor

Serial.print(" \*C, "); //prints DHT11 temperature value to Serial Monitor

Serial.print((int)humidity); //prints DHT11 humidity value to Serial Monitor

Serial.println(" H"); //prints DHT11 humidity value to Serial Monitor

// DHT11 sampling rate is 1HZ.

delay(1500);

}

# Libraries:

*SimpleDHT.h:*

It is a library for handling Standard DHT sensors (DHT11 and DHT22).

# Functions:

*Serial.print((int)temperature):*

Print temperature value in int.

*Serial.print((int)humidity):*

Print humidity value in int.