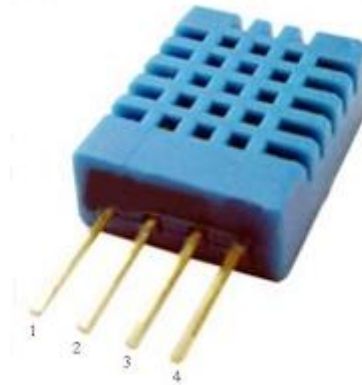


Wiring up DHT11 Temp & Humidity sensor to the Arduino

DHT11 Temperature and Humidity sensor

The DHT11 is chosen because it is lab calibrated, accurate and stable and its signal output is digital. Most important of all, it is relatively inexpensive for the given performance. Below is the pinout of the sensor.



[Datasheet](#)

Pin	Name	Description
1	VDD	Power supply 3 - 5.5 V DC
2	DATA	Serial data output
3	NC	Not connected
4	GND	Ground

Wiring:

Connect the sensor to the Arduino as shown below

DHT11	Arduino
Pin 1	Vcc
Pin 2	Analog0
Pin 4	Gnd

Install the DHT11 library:

Down load this [zipped file](#) and unzip it under the libraries directory of the Arduino IDE folder. For example, for my computer's setup, the directory is

C:\arduino-1.0.1\libraries

After copying files across, the directory

C:\arduino-1.0.1\libraries\DHT
should have the following two files: dht.h and dht.cpp

Program:

Load the program [dht11.ino](#) after you save it onto your computer and open it in Arduino IDE .

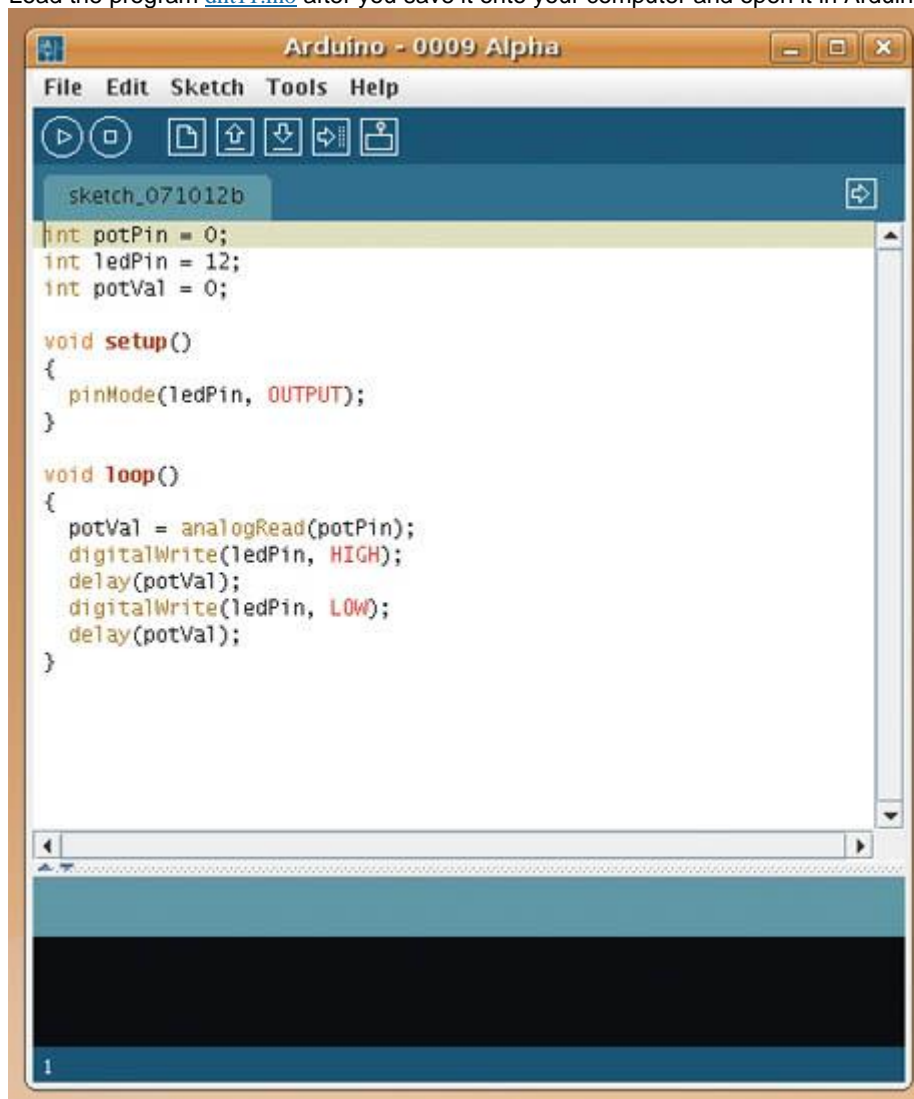


Fig 1. Arduino IDE

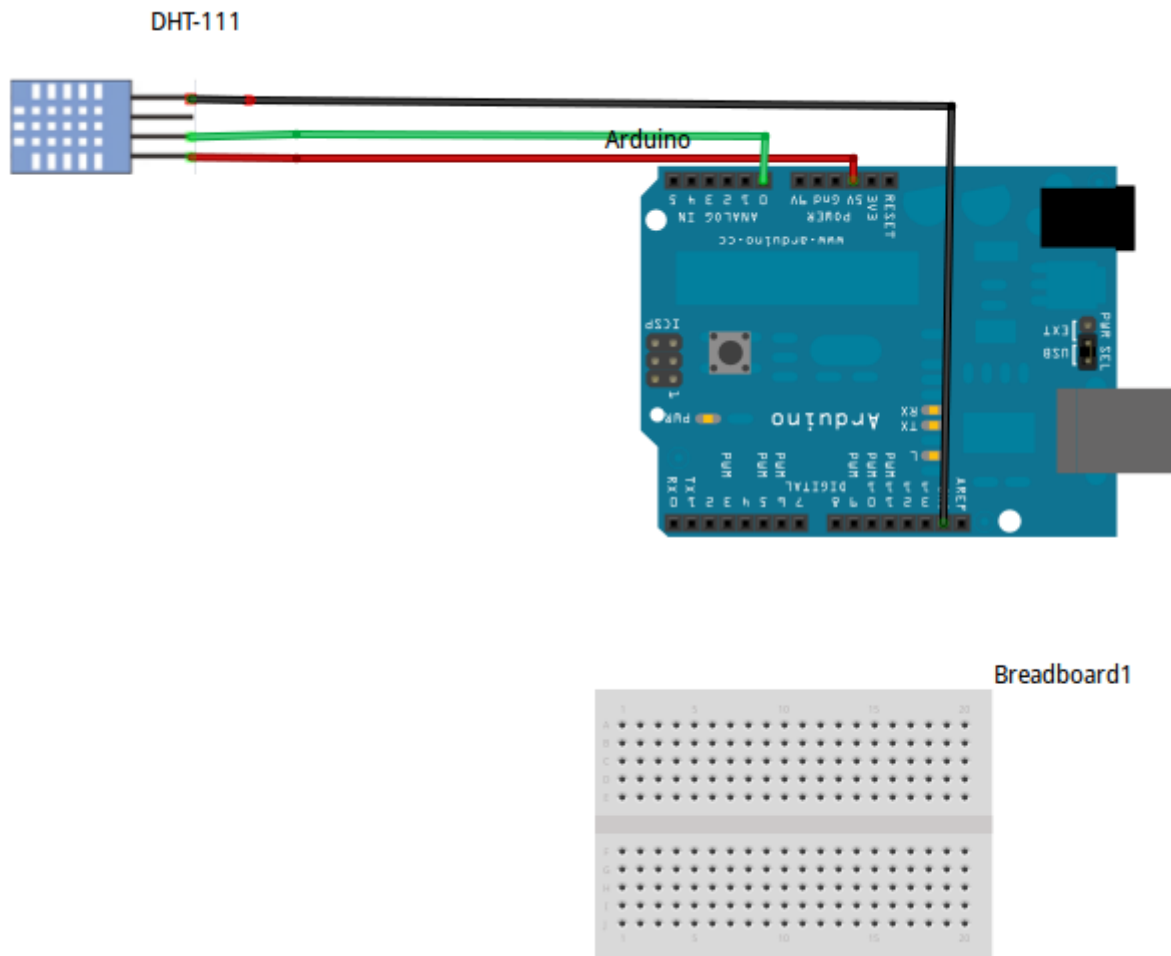


Fig 2: How to connect the sensor to Arduino

Running the program:

- Compile the program in the IDE
- Run the program and open the Serial port (shown below)

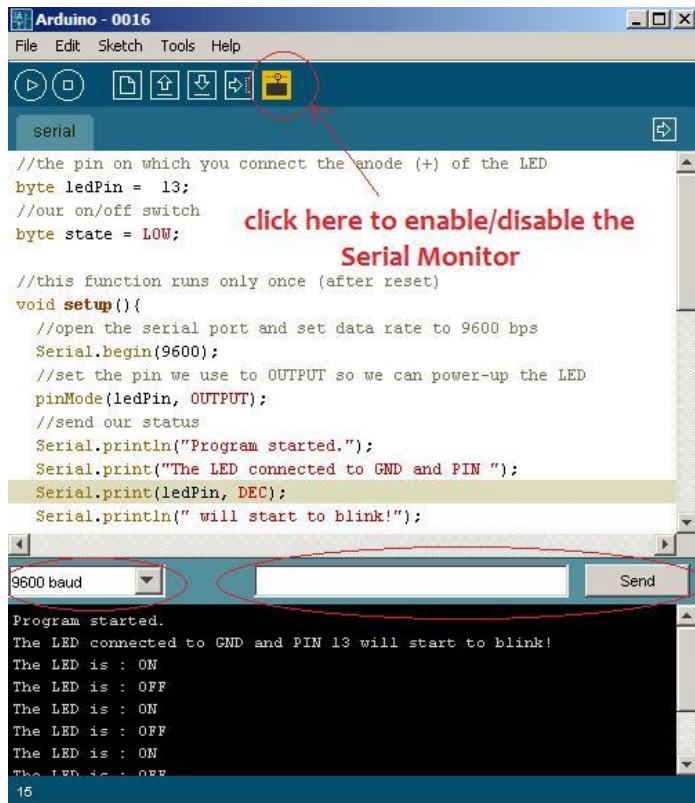


Fig 3: How to see the Serial port output

Output of the program:

And you should see the temperature and Humidity readings

