

Room Temperature using Arduino

Date #-----

Signature: -----

Room Temperature Sensor Using Arduino

In this project, you will learn how to use the “LM 35” Temperature sensor with Arduino Uno / Arduino Nano and calculate the room temperature that will be printed to the serial monitor, using Android Application.

Guide Manual Steps

Step 1: Materials and Tools

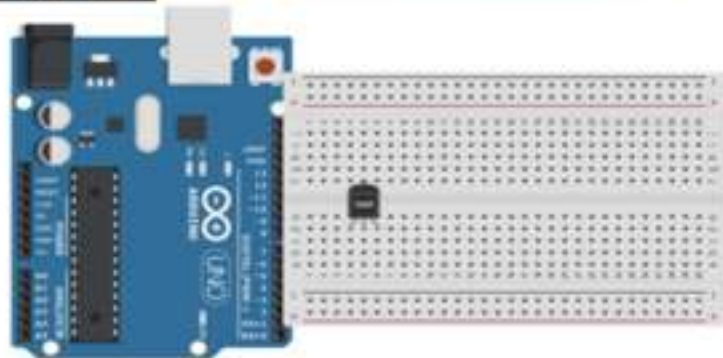
- Arduino Nano
- LM 25 temperature sensor
- Breadboard
- jumper wires
- Breadboard Wires
- Paper cutter
- LCD 16*2



Step 2: Connect Component on breadboard

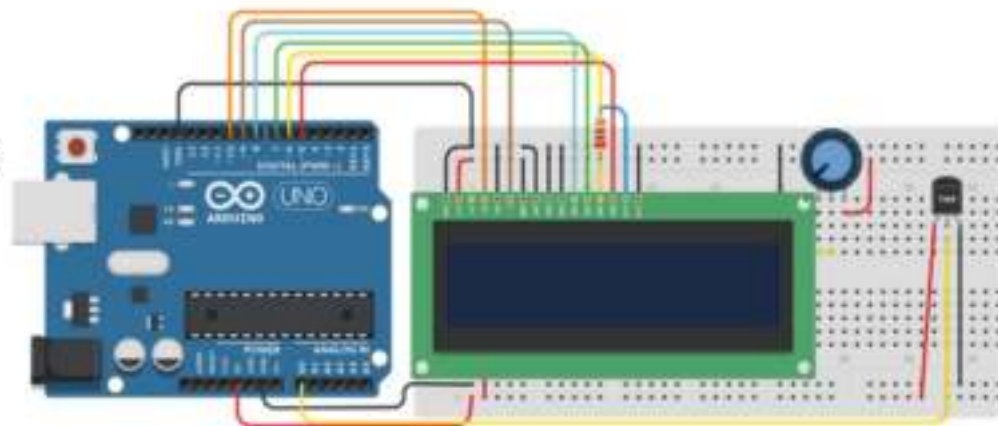
- Connect LM 35 and Arduino

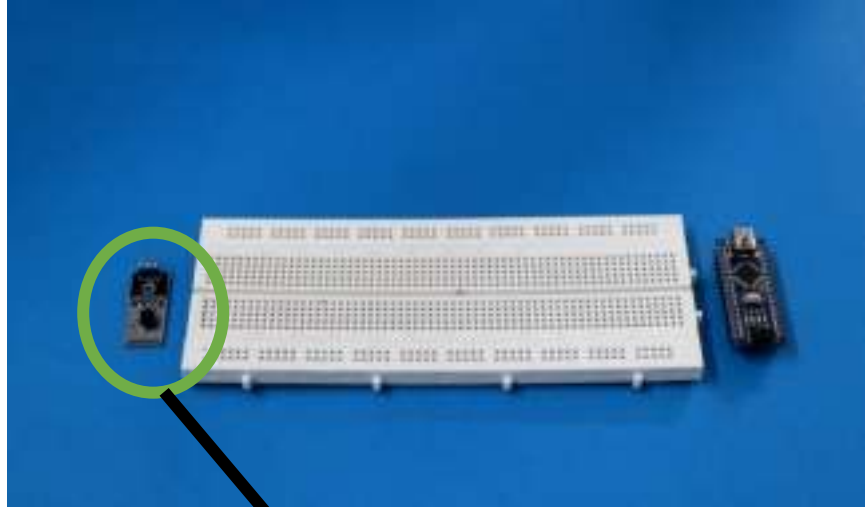
VCC	OUTPUT	GND
VCC	Arduino pin A0	GND



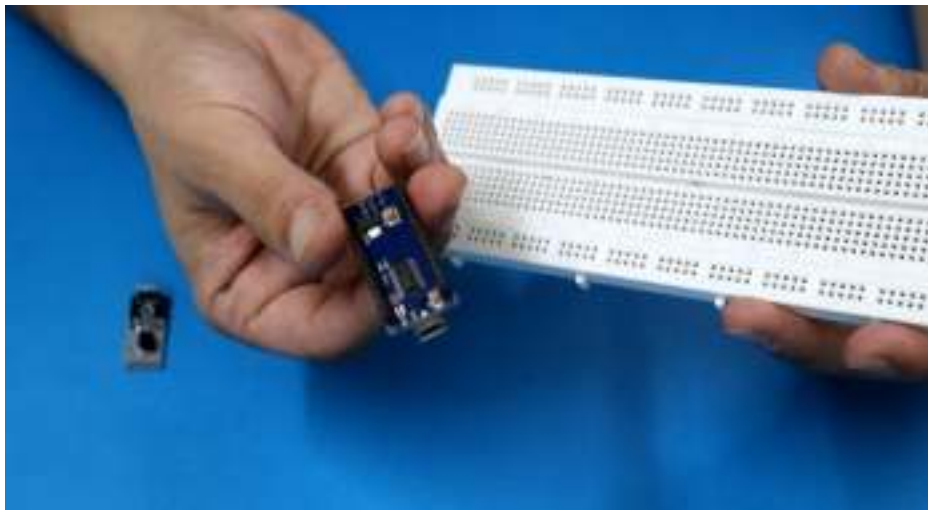
Step 3: Connecting to Arduino

- Connection:
- VCC → 5V pin
- SIGNAL → A0
- GND → GND)
- LCD → D5 → D10





**Figure 1: Breadboard, Arduino Nano
& Temperature sensor LM35**



**Figure 2: Arduino Nano
(Right-side → Digital Pins & left-side → Analog Pins)**

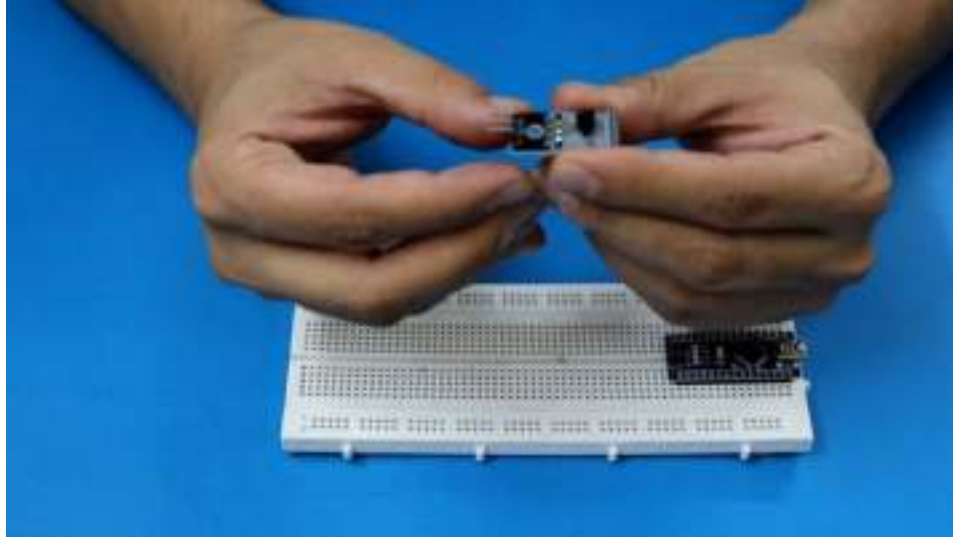


Figure 3: Temperature LM 35

Pin Configuration

1st Pin VCC→5v

2nd Pin→Output Pin

3rd Pin→GND Pin

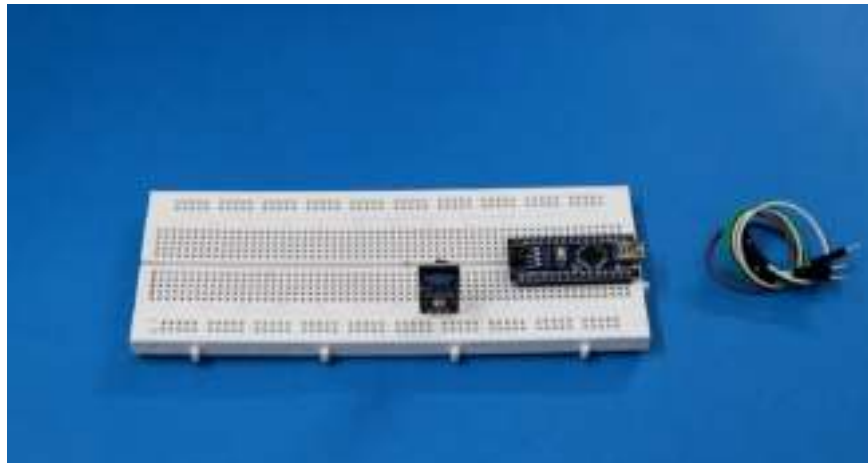


Figure 4: Connection Wire (Male to Male)

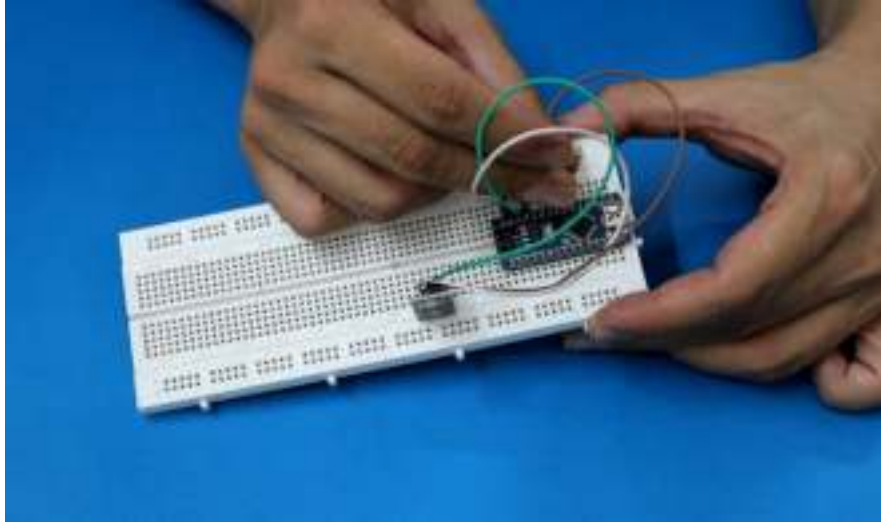


Figure 5: Connect White Wire with “GND”, Green wire with “5v” & Brown wire to PIN “A#0” on Arduino

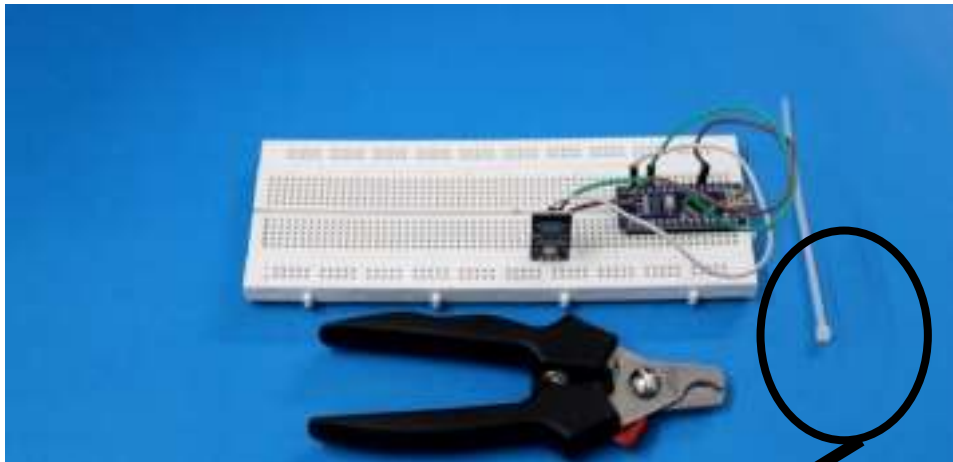


Figure 6(a): Wire-ties

Figure 6(b): Wire-cutter

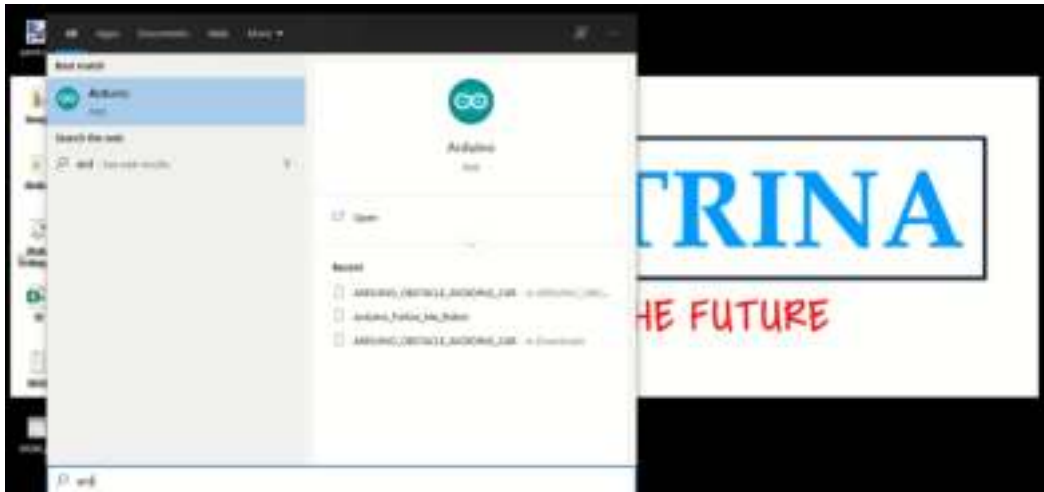


Figure 6: Upload code used Arduino IDM Application



Figure 7: Load file

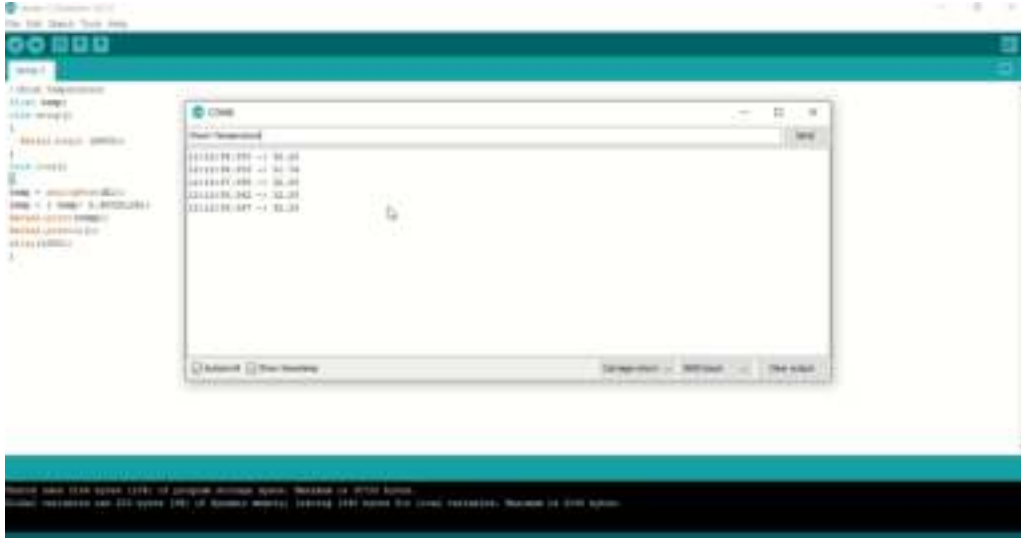


Figure 11:Project output

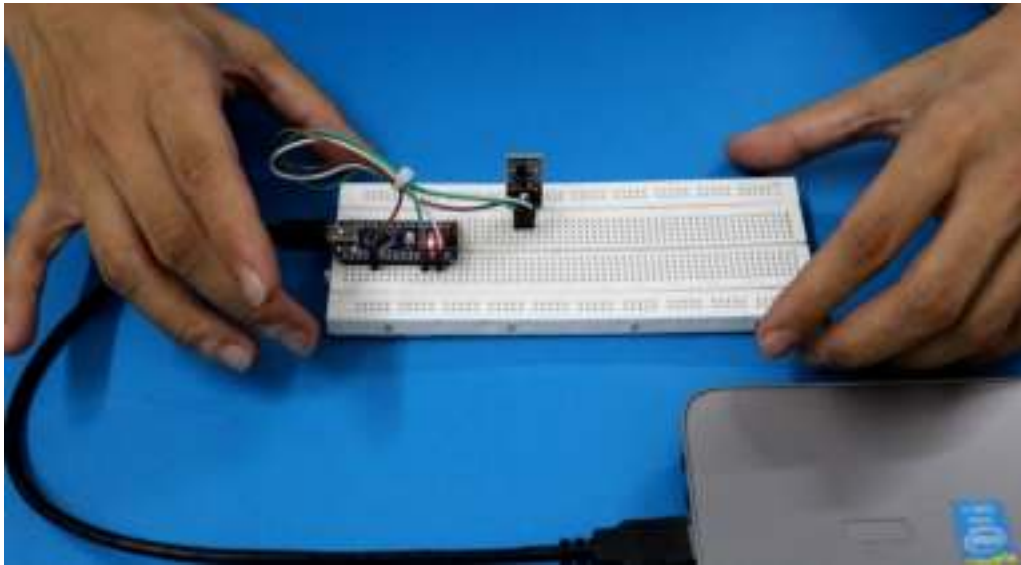


Figure 12:Project Demo

Code :