

LED Temperature Indicator

Students: Valentin Ples, Pîrjol Adelina, Andreea Gavrilă

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Curriculum: ETM



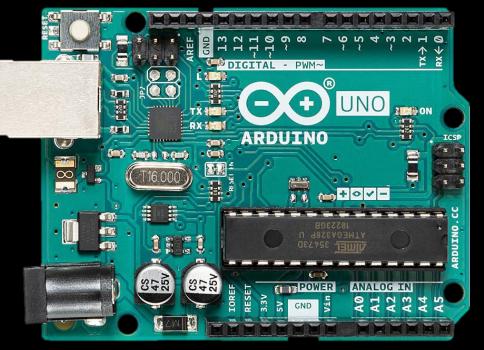
Idea

- Implementing a circuit that can measure the ambient temperature.
- Visual indicator of temperature using LEDs.
- Temperature graph for precisely reading the temperature.

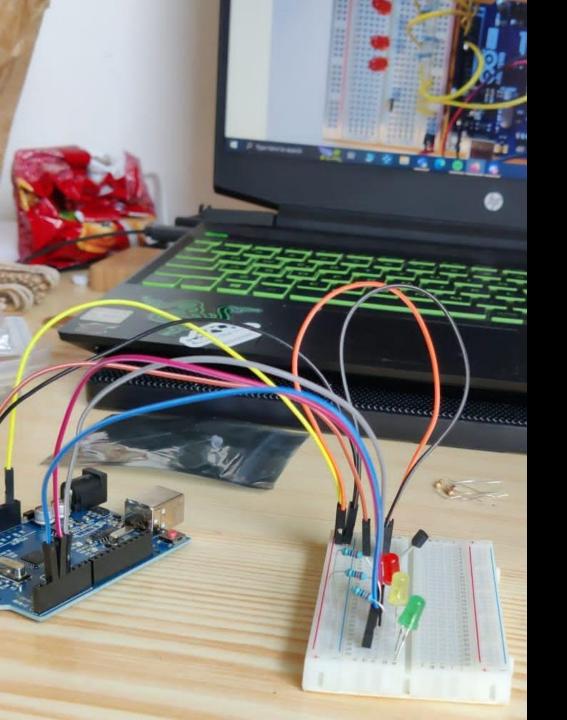


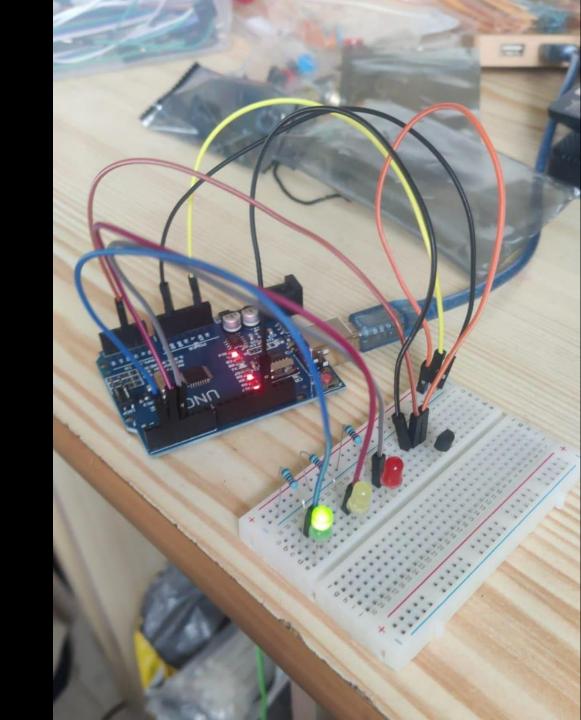
Components

- Three different color LEDs
- Three resistors
- Temperature sensor
- Breadboard
- Arduino
- Some cables











Implementation



- After building the circuit, Arduino IDE is used to make it functional.
- We set an ambient temperature of 25.9 degrees Celsius (such that the LEDs stay off unless sensor is heated).
- LOW temperatures is 2°C higher. When achieved, the green LED turn on.
- MID temperature is 2°C. It turns on the middle yellow LED.
- HIGH temperature is 2°C. This will turn on the red LED.
 - When the temperature lowers, the LEDs turn off one by one.
- On a computer, a graph of the voltage output of the sensor and temperature can be seen.



THANK YOU!

