## Exercise 10: Make diodes light up depending on temperature

## Equipment

For this exercise you will need:

- 1 x Arduino Uno
- $\bullet$  1 x TMP 36 GZ or LM 35 DZ
- $\bullet$  1 x Red LED
- 1 x Green LED
- 1 x Yellow LED
- $3 \times \sim 60 220\Omega$  Resistors
- Wires

## Setup

- Connect the LEDs as in exercise 2
- Connect the TMP36GZ/LM35DZ as in exercise 9

## Questions & Exercises

10a: Measure the temperature changes that you are able to cause by heating the sensor with your fingers and cooling it by blowing air on it.

10b: Make the diodes light up depending on the measured temperature. Use these values you measured before to calibrate your sensor.

- Red = High
- Yellow = Medium
- Green = Low