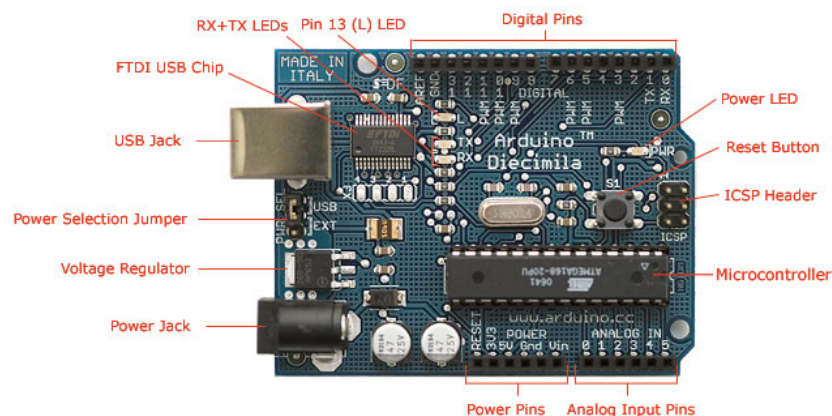| Instrumentação Electrónica Arduino Temperature 2011/2012 módulo 2 P. Stallinga	UAlg UNIVERSIDADE DO ALGARVE 30 anos 1979 | 2009 MIEET 3º ano

"Arduino is a physical computing platform based on a simple I/O board and a development environment that implements the Processing/Wiring language. Arduino can be used to develop stand-alone interactive objects or can be connected to software running on a computer (e.g., Macromedia Flash, Processing, Max/MSP, Pure Data, SuperCollider)".

(source: Wikipedia: http://en.wikipedia.org/wiki/Arduino)

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- Set up the software in Windows (XP or newer) or Linux (Ubuntu 6.10 or newer) and upload and run the test program "blinking LED". Software available at the Arduino homepage: http://www.arduino.cc/

- Use the Arduino card to make a temperature measurement system based on a temperature sensor. A warning LED has to light up when the temperature rises above 50 degrees and the LED switches off when the temperature drops below 40 degrees.

What is the resolution of the system?