Use the A/D converter

Things to remember:

* The input voltage may not be greater than 5.0 volts.
* Since only integer math is provided, the reading will be in hundredths of a volt.
* Use a potentiometer to vary the voltage.

**Application 1:**

Read the voltage and print it out on the screen. Repeat every 5 seconds

**Application 2:**

Add a red and a green LED (each with an appropriate resistor). If the reading is less than 4 volts then the green LED should flash intermittently.

If the voltage is 4 volts or greater the red LED should flash intermittently.

**Applications 3:**

Add a piezo speaker. The speaker should beep intermittently with its frequency proportional to the voltage.