RTC Scheduler Demo

# Overview

This demonstration uses the run to completion scheduler to flash LEDs 1, 2 and 3 at different frequencies, and also to display elapsed time on the LCD. LED6 lights whenever the MCU is executing task code.

# Comments and Suggestions

* Insert breakpoints in the tasks for debugging purposes.
* Monitor LED6 with an oscilloscope to see when the processor is active executing tasks vs. when it is idling in the scheduler awaiting ready tasks.
* Measure the execution time for the scheduler tick ISR. How much overhead does it produce given a 1024 Hz tick frequency? Ask class for suggestions on how to reduce the overhead.
* Enable a power saving mode (stop or halt) and monitor the MCU current at JP1.