System Requirements

* Have a Main Shut off Button for the System.
* Use soil moisture sensor to determine when to water
* Have two days in between watering sessions (for both scheduled or manual)
* Give the user information on soil moisture sensor readings
* Prompt the user to cancel a scheduled watering session if it may rain.
* Allow the user to cancel watering sessions
* Allow the user to manually start a watering session
* Millis() disregard an interval count that is –negative (make interval variable signed long ?)
* Only start 48 hr counter when the soil is dry?
* Collect a few samples of soil moisture reading and calculate the average every hour

TO DO

* Set up MCU Timing Intervals with Millis: Minutes, Hours etc
* Set up Hourly Sample collection (with varied sample collection throughout the hour)
* Set up Average soil Moisture reading from Hourly sample
* Set up Watering Process (Scheduled and Manual with Cancelling)
* Set up Watering Cycle Routine
* Set up custom notifications for watering scheduled, currently watering, cancelled watering.