

Every 200 ms

- call AdjustTemp

-- increase setpoint

-- decrease setpoint

Every 500ms

- call ReadTemp

-- set ambient temp

Every 1000ms

- call SetHeat

-- turn on heat element

-- turn off heat element

System inputs:

-ambient temperature readings

-button presses

System outputs:

-turn on/off heat

-simulated server messages (UART)

-setpoint adjustment

Expected Results:

-Setpoint adjustment based on button presses

-Reading and updating of ambient temperatures

-Turn on/off Heat based on setpoint

-Report status (UART)

