

## Task Scheduler



every 200 mS

check (+/-)  
buttons for  
activation

update set point  
temperature  
accordingly

update heat  
activation status to  
1 for set point  
temperature >  
room temperature,  
or to 0 otherwise

update LED to  
on if heat  
status is 1, or  
to off  
otherwise

every 500 mS

check  
embedded  
system  
temperature  
sensor

update room  
temperature

every 1 Second interval

Calculate current  
activation time

transmit room  
temperature, set  
point temperature,  
heat activation  
status, and seconds  
since last system  
rest to server