

input arduino

while
true

mean(rate)
5 clatd

calculate
temp

get time

$\delta \text{time} = \text{time} - \text{last time}$

$\Delta \text{temp} = \text{temp} - \text{last temp}$

rate
 $= \frac{\Delta \text{temp}}{\Delta \text{time}}$

predict
 $= \text{temp} + \text{rate} \times 5 \text{min}$

if
 $r > 4$

red
on

else

if
 $r < -4$

yellow
on

else

green
on

end

