

Initialize Pins
Configure Timer1

Loop()

Read Temp

- Get sensor data

Calculate Avg temp

- Calculate 100 samples
over 5 second period

Calculate PWM
Duty Cycle

Update
Fan & LED
Status (on/off)

Read Buttons

- Button 1 pressed
- Button 2 pressed

Toggle fan

or
change sensitivity
level

Adjust

LED (FAN) intensity
based on sensitivity

Print to Serral
Monitor