

Requirements:

Req. 1 – The code generated is written in C for the SKP16C62P.

Req. 2 – The code is well commented and easy to follow.

Req. 3 – The system will have a light-sensing device.

Req. 4 – On the first line of the display, write “BRIGHT %”

Req. 5 – You will calibrate the device from complete darkness to bright sunlight.

Req. 6 – In complete darkness, show “0%” on the second line of the display. In bright sunlight, show “100%” on the display. Average room light should be somewhere in between these two values.

Req. 7 – When the light is between 0 and 33%, light the red LED, between 34% and 66% light the yellow LED, and between 67% and 100% light the green LED.

Req. 8 – 5 pts extra credit – work on battery power.