

```

1  #ifndef HARDWARE_H
2  #define HARDWARE_H
3
4  #include "mbed.h"
5  #include "pinout.h"
6
7  // seven segment display anodes
8  // when in a int8_t, they are 0b-GFEDCBA
9  extern BusOut      g_seven_seg;
10
11 // display cathodes
12 extern PwmOut      g_dsl;
13 extern PwmOut      g_dsr;
14
15 // hc-sr04 range finder
16 extern DigitalOut  g_trg;
17 extern InterruptIn g_ech;
18
19 // middle switch
20 extern InterruptIn g_swm;
21
22 // LEDS
23 extern DigitalOut  g_ldl;
24
25 // LDR
26 extern AnalogIn    g_lit;
27
28 // hardware initialization
29 void hw_init(void);
30
31 #endif // HARDWARE_H
32

```