```
2 * @file main.c
3 * @brief main() function.
5 * # License
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7 **********************************
8 *
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10 * software is governed by the terms of Silicon Labs Master Software License
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12 * www.silabs.com/about-us/legal/master-software-license-agreement. This
13 * software is distributed to you in Source Code format and is governed by the
14 * sections of the MSLA applicable to Source Code.
15 *
17 #include "sl component catalog.h"
18 #include "sl_system_init.h"
19 #include "app.h"
20 #include "EM_device.h"
21 #include "EM chip.h"
22#if defined(SL_CATALOG_POWER_MANAGER_PRESENT)
23 #include "sl_power_manager.h"
24 #endif
25#if defined(SL_CATALOG_KERNEL_PRESENT)
26 #include "sl_system_kernel.h"
27 #else // SL CATALOG KERNEL PRESENT
28 #include "sl_system_process_action.h"
29 #endif // SL CATALOG KERNEL PRESENT
32 * Extern Includes for Lab03
34 extern void task_A(), task_B(), task_C(), task_D(), task_E(), task_F();
36int n = 0;
37
38 void SysTick_Handler(void)
39 {
40 switch(n)
41
  {
42
    case 0:
43
      task_A();
44
      task_B();
45
      task_D();
46
      break;
47
    case 1:
48
      task_F();
49
      task_A();
50
      task_C();
51
      break;
52
    case 2:
53
      task_A();
54
      task_B();
55
      task_C();
56
      break;
57
    case 3:
```

```
58
         task_A();
 59
         task E();
 60
         break;
       case 4:
 61
 62
         task_B();
 63
         task_A();
         task_D();
 64
 65
         break;
 66
       case 5:
 67
         task_A();
 68
         task_B();
 69
         task_C();
 70
         break;
 71
       case 6:
 72
         task_F();
 73
         task_A();
         task_C();
 74
 75
         break;
 76
       case 7:
 77
         task_A();
 78
         task_B();
         task_D();
 79
 80
         break;
 81
       case 8:
 82
         task_A();
 83
         task_E();
 84
         break;
 85
       case 9:
 86
         task_A();
 87
         task_B();
 88
         task_C();
 89
         //n = 0;
 90
         break;
 91
     }
     n = (n+1)\%10;
 92
 93 }
 94
 96 int main(void)
97 {
    // Initialize Silicon Labs device, system, service(s) and protocol stack(s).
    // Note that if the kernel is present, processing task(s) will be created by
    // this call.
100
     sl_system_init();
101
     SystemCoreClock = 14000000; // 14 MHz for this device
103
     SysTick_Config(3 * SystemCoreClock / 1000); //3ms slice
104
105
106
     // Initialize the application. For example, create periodic timer(s) or
     // task(s) if the kernel is present.
107
108
     app_init();
109
110 #if defined(SL_CATALOG_KERNEL_PRESENT)
    // Start the kernel. Task(s) created in app_init() will start running.
    sl_system_kernel_start();
113 #else // SL_CATALOG_KERNEL_PRESENT
114
```

main.c

128 }

130 } 131

129 #endif // SL_CATALOG_KERNEL_PRESENT