

```

1 //=====
2 //
3 // Step 08
4 // PWMによるB e e p出力
5 // JP2 (2-3) / JP3 (2-3) / JP4 (2-3) / JP5 (2-3) / JP6 (2-3)
6 // JP7 (2-3) Beep
7 //
8 //=====
9
10 #include "mbed.h"
11
12 InterruptIn swL(p18);    // JP2 (2-3)
13 DigitalIn  swU(p19);    // JP3 (2-3)
14
15 DigitalOut led1(LED1);
16 DigitalOut led2(LED2);
17 DigitalOut led4(LED4);
18
19 PwmOut      beep(p23);  // JP7 (2-3)
20
21 //-----
22 // Interrupt SW Input
23 //-----
24 void int_swL(void)
25 {
26     led1 = !led1;
27     while( swL == 0 );
28 }
29
30 //-----
31 // Main
32 //-----
33 int main()
34 {
35     int flg=0;
36     float freq = 1000;    // 1kHz
37     swL.mode(PullUp);     // Pull Up
38     swU.mode(PullUp);     // Pull Up
39
40     while(1)
41     {
42         //-----
43         // SW2 Interrupt in
44         //-----
45         swL.fall(&int_swL);
46
47         //-----
48         // SW1 Normal Input
49         //-----
50         if( swU == 0 )
51         {
52             led2 = !led2;
53             while( swU == 0 );
54         }
55
56         led4 = !led4;
57         //-----
58         // Beep
59         // flg->beep once
60         //-----
61         if( led1 )
62         {
63             if( flg == 0 )
64             {
65                 beep.period(1.0/freq);
66                 beep.write(0.5);    //Duty

```

```
67         flg=1;
68     }
69 }
70 else
71 {
72     beep.write(0.0);
73     flg=0;
74 }
75
76 //-----
77 wait(0.1);          // Wait 0.1s
78
79 }
80 }
```