```
void main(void)
15 □ {
١6
         // Initialize the device
١7
        SYSTEM Initialize();
18
١9
        clearPuTTY();
30
21
        unsigned int n = 0, m = 0, counter = 0, has switch1 changed = 0;
22
23
        //PR2=125;
24
        n = T2CONbits.CKPS; // prescaler setting
25
        T = ((float)PR2 + 1.0)*pow(2.0,n)*4.0/XTAL_FREQ;
26
         f = 1/T;
27
        printf("TMR2 settings: %u = 0x%x, N = %.0f, T = %f s, f = %f Hz \n\r", PR2, PR2, pow(2,n), T, f);
85
29
        //Duty cycle value stored in SFRs CCPR1H:CCPRxL
30
         printf("Easy Setup value of CCPR1 is %4.0f \n\r", CCPR1H*256.0+CCPR1L);
31
        printf("*DC = %.1f \n\n\r", (CCPR1H*256.0+CCPR1L)*100.0/(PR2+1)/4.0);
32
33
     //PR4=200;
34
         n = T4CONbits.CKPS;  // prescaler setting
35
         T = ((float)PR4 + 1.0)*pow(2.0,n)*4.0/XTAL FREQ;
         f = 1/T;
36
         printf("TMR4 settings: %u = 0x%x, N = %.0f, T = %f s, f = %f Hz \n\r", PR4, PR4, pow(2,n), T, f);
37
 Source History 💼 🔯 👼 + 👼 + 💆 😓 ኞ 🖶 📮 <equation-block> 🍄 😓 🔯 💇 🔴 📵 🕍 🚅 💯
          printf("TMR4 settings: %u = 0x%x, N = %.0f, T = %f s, f = %f Hz \n\r", PR4, PR4, pow(2,n), T, f);
 37
 38
 39
           //Duty cycle value stored in SFRs PWMxDCH:PWMxDCL (or PWM5 INITIALIZE DUTY VALUE)
          printf("Easy Setup value of PWM5DC is %u \n\r", PWM5 INITIALIZE DUTY VALUE);
 40
          printf("%DC = %.1f \n\n\r", (float)PWM5 INITIALIZE DUTY VALUE*100.0/(PR4+1)/4.0);
 41
 42
 43
 44
          printf("counter = %u OFF\n\r", counter);
 45
 46
          while (1)
 47
 48
              // Add your application code
 49
              has_switch1_changed = poll_switch1_for_edges(button_RD1_GetValue());
 50
 51
              DELAY milliseconds (10);
 52
            if ( has switch1 changed == 1 )
 53
                DELAY milliseconds(10);
 54
 55
                counter++;
 56
                if (counter > 4) counter = 0;
 57
                printf("counter = %u \n\r", counter);
 58
 59
 60
           switch(counter) {
 61
              case 0: PWM1 LoadDutyValue(0);
 62
                     PWM5_LoadDutyValue(0);
 63
                      break;
 64
              case 1: PWM1 LoadDutyValue(249);
```

```
☐ timeEvent.c x ☐ main.c x ☐ main.c x

    History 💼 👺 👼 - 👼 - 💆 🔁 🖶 📮 😭 🔗 😓 🔯 💇 🔘 📦 📲 👺
55
                 counter++;
                 if (counter > 4) counter = 0;
56
                 printf("counter = %u \n\r", counter);
57
58
             }
59
           switch(counter) {
60
               case 0: PWM1 LoadDutyValue(0);
61
62
                        PWM5 LoadDutyValue(0);
63
                        break:
64
               case 1: PWM1 LoadDutyValue(249);
65
                        PWM5 LoadDutyValue(124);
66
                        break;
67
               case 2: PWM1 LoadDutyValue(499);
68
                        PWM5 LoadDutyValue(249);
69
                        break;
70
               case 3: PWM1 LoadDutyValue(749);
71
                        PWM5 LoadDutyValue (374);
72
                        break;
73
               case 4: PWM1 LoadDutyValue (999);
74
                        PWM5 LoadDutyValue (499);
75
                        break;
76
               default:
77
                        break;
78
```

ΓMR4

😂 Easy Setup 🗏 Regist	ters
Hardware Settings	
Enable Timer	
Control Mode	Roll over pulse 💌
Ext Reset Source	T4CKIPPS pin ▼
Start/Reset Option	Software control *
Timer Clock	
Clock Source	FOSC/4
Clock Frequency	32.768 kHz
Polarity	Rising Edge -
Prescaler	1:64 Tenable Prescaler O/P Sync
Postscaler	1:1
Timer Period	
Timer Period 32	us ≤ 4 ms ≤ 8.192 ms
Actual Period 4 ms	(Period calculated via Timer Period)
Software Settings	
Enable Timer Interrup	pt
Callback Function Rate	0x0 x Time Period = 0.0 ns