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//***********************
// Program for PWM Generation using PIC18F4550.
// PWM output
               :
                        RC2
#include <p18f4550.h>
#include "vector_relocate.h"
void myMsDelay (unsigned int time) // Definition of delay subroutine
{
      unsigned int i, j;
            for (i = 0; i < time; i++)
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}
void main()
      TRISCbits.TRISC2 = 0; // Set PORTC, RC2 as output (CCP1)
                        // Set PORTD, RD5 as output (DCM IN2)
   TRISDbits.TRISD5 = 0;
      TRISDbits.TRISD6 = 0; // Set PORTD, RD6 as output (DCM IN1)
      PR2 =
              187;
                      // set PWM Frequency 4KHz
                     // Configure CCP1CON as PWM mode.
   CCP1CON = 0x0C;
                        //Start timer 2 with prescaler 1:16
      T2CON = 0x07;
      PORTDbits.RD6 = 1;  // Turn ON the Motor
   PORTDbits.RD5 = 0;
 while(1)
            // Endless Loop
      {
            // -----Duty Cycle 80%-----
            CCP1CONbits.DC1B0 = 0;
            CCP1CONbits.DC1B1 = 0;
            CCPR1L = 0x96;
            myMsDelay(2000);
            // -----
            // -----Duty Cycle 60%-----
            CCP1CONbits.DC1B0 = 0;
            CCP1CONbits.DC1B1 = 1;
            CCPR1L = 0x70;
            myMsDelay(2000);
            // -----
            // -----Duty Cycle 40%-----
            CCP1CONbits.DC1B0 = 0;
            CCP1CONbits.DC1B1 = 0;
            CCPR1L = 0x4B;
            myMsDelay(2000);
            // -----
            // -----Duty Cycle 20%-----
            CCP1CONbits.DC1B0 = 0;
            CCP1CONbits.DC1B1 = 1;
            CCPR1L = 0x25;
            myMsDelay(2000);
```

// -----} }