```
 // program to generate 4 kHz PWM waveform
#include<p18f4520.h>
#include "vector_relocate.h"

void myMsDelay (unsigned int time);

void main()
{
        TRISCbits.TRISC2 = 0 ;              // Set PORTC, 2 as output
    TRISD=0;
        PR2 = 0XBB;

    CCP1CON = 0x0C;                      // Configure CCP1CON as explained above.
        T2CON = 0x07;

        PORTDbits.RD5 = 1 ;  // anticolockwise
        PORTDbits.RD6 = 0 ;
  while(1)
        {

                CCPR1L = 0xBB;  //0b10111011//187
                CCP1CONbits.DC1B0=0;
                CCP1CONbits.DC1B1=0;
                myMsDelay(200);


                CCPR1L = 149;
                CCP1CONbits.DC1B0=0;
                CCP1CONbits.DC1B1=1;
                myMsDelay(10);

                CCPR1L = 112;
                CCP1CONbits.DC1B0=1;
                CCP1CONbits.DC1B1=0;
                myMsDelay(100);

                CCPR1L = 0x4A;
                CCP1CONbits.DC1B0=1;
                CCP1CONbits.DC1B1=1;
                myMsDelay(5);

                CCPR1L = 0x25;
                CCP1CONbits.DC1B0=0;
                CCP1CONbits.DC1B1=1;
                myMsDelay(10);


        }
```

```
}


void myMsDelay (unsigned int time)
{
        unsigned int i, j;
        for (i = 0; i < time; i++)
                for (j = 0; j <665; j++);/*Calibrated for a 1 ms delay in MPLAB*/
}
```