**Group C: Assignment 7**

**PWM Signals for DC Motor**

#include <PIC18F4520.h>

#pragma config OSC = HS

#pragma config WDT = OFF

#pragma config LVP = OFF

#pragma config PBADEN = OFF

void myMsDelay (unsigned int time)

{

unsigned int i, j;

for (i = 0; i < time; i++)

for (j = 0; j < 710; j++);

}

void main()

{

TRISCbits.TRISC0 = 0;

TRISCbits.TRISC1 = 0;

TRISCbits.TRISC2 = 0;

PR2 = 0x4E;

CCP1CON = 0x0C;

T2CON = 0x07;

PORTCbits.RC0 = 1;

PORTCbits.RC1 = 0;

while(1)

{

CCP1CONbits.DC1B0 = 0;

CCP1CONbits.DC1B1 = 1;

CCPR1L = 0x3E;

myMsDelay(1000);

CCP1CONbits.DC1B0 = 1;

CCP1CONbits.DC1B1 = 1;

CCPR1L = 0x2E;

myMsDelay(1000);

CCP1CONbits.DC1B0 = 1;

CCP1CONbits.DC1B1 = 0;

CCPR1L = 0x1F;

myMsDelay(1000);

CCP1CONbits.DC1B0 = 0;

CCP1CONbits.DC1B1 = 1;

CCPR1L = 0x0F;

myMsDelay(1000);

}

}