LIST P=18F458 CALL DATAWRT

#INCLUDE <P18F458.INC> MOVLW '7'

CALL DATAWRT

LCD_DATA EQU PORTD CALL DELAY

LCD_CTRL EQU PORTC MOVLW '2'

RS EQU RCO CALL DATAWRT

RW EQU RC1 MOVLW '9'

EN EQU RC2 CALL DATAWRT

COUNTER EQU 0X86

AGAIN:

CLRF TRISD BTG LCD_CTRL,0

CLRF TRISC BRA AGAIN

BCF LCD_CTRL, EN

CALL LDELAY COMNWRT:

MOVLW 0X38 MOVWF LCD_DATA

CALL COMNWRT BCF LCD_CTRL, RS

CALL LDELAY BCF LCD_CTRL, RW

MOVLW 0X0C BSF LCD_CTRL, EN

CALL COMNWRT CALL SDELAY

CALL DELAY BCF LCD_CTRL, EN

MOVLW 0X06 RETURN

CALL COMNWRT

CALL DELAY DATAWRT:

MOVLW 0X06 MOVWF LCD_DATA

CALL COMNWRT BSF LCD_CTRL, RS

CALL DELAY BCF LCD_CTRL, RW

MOVLW 0X84 BSF LCD_CTRL, EN

CALL COMNWRT CALL SDELAY

CALL DELAY BCF LCD_CTRL, EN

MOVLW '7' RETURN

LDELAY:

MOVLW D'10'

MOVWF COUNTER

LOOP1:

DECFSZ COUNTER, F

GOTO LOOP1

RETURN

SDELAY:

MOVLW D'10'

MOVWF COUNTER

LOOP2:

DECFSZ COUNTER, F

GOTO LOOP2

RETURN

DELAY:

MOVLW D'10'

MOVWF COUNTER

LOOP3:

DECFSZ COUNTER, F

GOTO LOOP3

RETURN

END

