

#### Department of Electronics & Telecommunication Engineering

### **EXPT. NO.: 8**

# TITLE: Generation of PWM and interfacing DC motor with PIC

#### **Microcontroller**

```
#include <p18f4550.h>
void myMsDelay (unsigned int time) // Definition of delay subroutine
  unsigned int i, j;
  for (i = 0; i < time; i++) // Loop for itime
    for (j = 0; j < 710; j++); // Calibrated for a 1 ms delay in MPLAB
}
void main()
TRISCbits.TRISC2 = 0;
TRISD=0;
PR2=0xBA;
CCP1CON = 0x0C;
T2CON = 0x07;
PORTDbits.RD5 = 1;
PORTDbits.RD6 = 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;
```



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