

INPUT : DC Motor

```
1  #include <pl8f4550.h>
2  #include<xc.h>
3  unsigned char count = 0;
4  bit TIMER,SPEED_UP;
5
6  void timer2Init(void)
7  {
8      T2CON=0b00000010;
9      PR2 = 0x95;
10 }
11 void delay(unsigned int time)
12 {
13     unsigned int i,j;
14     for(i=0;i<time;i++);
15     for(j=0;j<1000;j++);
16 }
17
18 void main(void) {
19
20     unsigned int i;
21     TRISCbits.TRISC1=0;
22     TRISCbits.TRISC2=0;
23     LATCbits.LATC1=0;
24     CCP1CON =0b00111100;
25
26     CCP1L=0x0F;
27     timer2Init();
28     TMR2ON=1;
29
30     while(1)
31     {
32         for(i=15;i<150;i++)
33         {
34             CCP1L=i;
35             delay(100);
36         }
37         for(i=150;i>15;i--)
38         {
39             CCP1L=i;
40             delay(100);
41         }
42     }
43 }
44
```