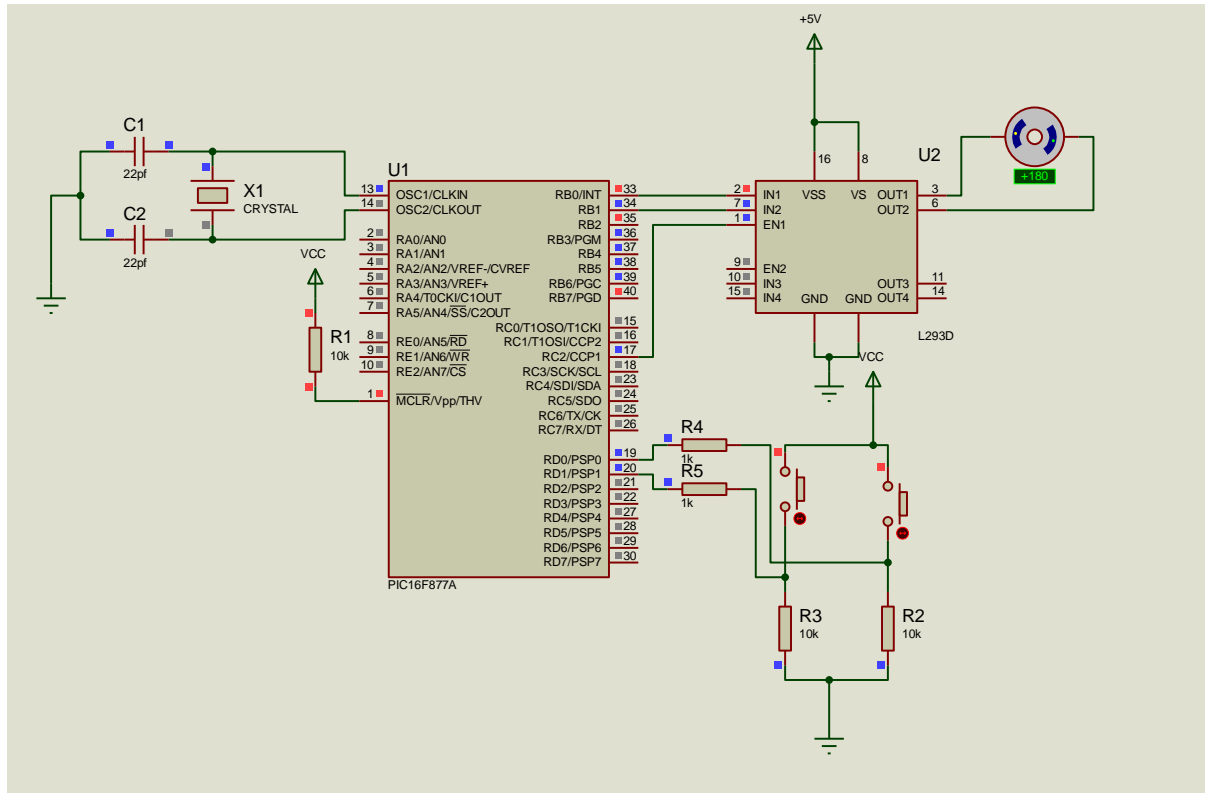DC motor speed control using pwm

Code:

```
void main()
{
    short duty=0;              // Initial value for duty
    TRISD=0xff;                // PortD set as Input
    TRISB=0x00;                // PortB set as Output
    // Run motor in anticlock wise
    portb.f0=0xff;             // Initialize portb.f0 as on
    portb.f1=0x00;             // Initialize portb.f1 as off

    PWM1_Init(1000);           // Initialize PWM
    PWM1_Start();              // Start PWM
    PWM1_Set_Duty(duty);       // Set current Duty for PWM

    while(1)
    {
     if(RD0_bit && duty<250)       // if button RD0 pressed
     {
       Delay_ms(100);
       if(RD0_bit && duty<250)
       {
         duty=duty+10;             // Increment duty
         PWM1_Set_Duty(duty);      // change the duty cycle
       }
```

```c
    }
    if(RD1_bit && duty>0)        // if button RD1 pressed
    {
     Delay_ms(100);
     if(RD1_bit && duty>0)
     {
      duty=duty-10;          // Decrement duty
      PWM1_Set_Duty(duty);
     }
    }
    Delay_ms(10);
   }
}
```