#define F\_CPU 8000000UL

#include<avr/io.h>

#include<util/delay.h>

void PWM\_init()

{

TCCR0=(1<<WGM00)|(1<<WGM01)|(1<<COM01)|(1<<CS00);

DDRB|=(1<<PB3); //connect the motor to PB3 and PB4

}

int main()

{

unsigned char duty;

PWM\_init();

while(1)

{

for(duty=0;duty<255;duty++)

{

OCR0=duty;

\_delay\_ms(8);

}

for(duty=255;duty>1;duty--)

{

OCR0=duty;

\_delay\_ms(8);

}

}

}