#ifndef F\_CPU

#define F\_CPU 16000000UL

#endif

#include<avr/io.h>

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#define F\_CPU 16000000UL

#endif

#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

}

int main(void)

{

DDRC|=(1<<PC0);

DDRD&=~(1<<PD0);

DDRB&=~(1<<PB0);

unsigned char duty;

PWM\_init();

while(1)

{

if((PIND&(1<<PD0))==0)

{

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

{

OCR0=duty;

\_delay\_ms(8);

}

}

if((PINB&(1<<PB0))==0)

{

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

{

OCR0=duty;

\_delay\_ms(8);

}

}

}

}