while(1)

{

x=ADC\_Read(0);

duty = x/4;

v=(duty/2.55);

intTostr(v,txt);

lcd\_out(1,1,txt);

if(portd.b0==1)

{on\_state=~on\_state ;

}

if(portd.b1==1)

{direction\_state=~direction\_state ;

}

if(on\_state==1)

{ if ( direction\_state==1) {

pwm2\_set\_duty(0);

pwm1\_set\_duty(duty);

PORTd.b2=1;

PORTd.b3=0;

lcd\_cmd(\_lcd\_clear);

lcd\_out(1,1,txt );

lcd\_out(2,1,"on,cw"); }

 if ( direction\_state==0){

pwm1\_set\_duty(0);

pwm2\_set\_duty(duty);

PORTd.b3=1;

PORTd.b2=0;

lcd\_out(1,1,txt);

lcd\_out(2,1,"on, ccw");}

 }

 else if(on\_state==0 )

 {pwm1\_set\_duty(0);

 pwm2\_set\_duty(0);

 lcd\_out(1,1,"off");

} } }