#include <avr/io.h>

#include <stdio.h>

#include <util/delay.h>

#define F\_CPU 16000000UL

void command (unsigned char cmd)

{

PORTB = 0X02;

PORTC = cmd;

PORTB = 0X00;

\_delay\_ms(15);

}

void lcd\_data(unsigned char data)

{

PORTB = 0X03;

PORTC = data;

PORTB = 0X01;

\_delay\_ms(15);

}

void lcd\_print(char \*p)

{

while(\*p)

{

lcd\_data(\*p++);

}

}

int main(void)

{

DDRB=0XFF;//This register is used for selecting the R/S and R/W pin.

DDRC=0XFF;//This register is used to give the data or commands.

command(0x38);//Activated 2 lines in 8-bit mode.

command(0X0F);//Display is ON, cursor is blinking.

command(0x01);//Clearing the display.

while(1)

{

command(0X80);//Forced the cursor to first position of first line.

lcd\_print("Welcome to");

\_delay\_ms(1000);

command(0XC0);//Forced the cursor to the first position of second line.

lcd\_print("SS EmbeddedWorld");

\_delay\_ms(1000);

command(0X01);//Clearing the display.

\_delay\_ms(1000);

}

}