

Project code :

/*

*/

This program was produced by the

CodeWizardAVR V2.05.0 Professional

Automatic Program Generator

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Project :

Version :

Date : 20-Sep-2017

Author :

Company :

Comments:

Chip type : ATmega16

Program type : Application

AVR Core Clock frequency: 11.059200 MHz

Memory model : Small

External RAM size : 0

Data Stack size : 256

*/

```
#include <mega16.h>
```

```
#include <delay.h>
```

```
// Alphanumeric LCD Module functions
```

```
#include <alcd.h>
```

```
// Declare your global variables here
```

```
void main(void)
```

```
{
```

```
// Declare your local variables here
```

```
// Input/Output Ports initialization
```

```
// Port A initialization
```

```
// Func7=In Func6=In Func5=In Func4=In Func3=In Func2=In Func1=In Func0=In
```

```
// State7=T State6=T State5=T State4=T State3=T State2=T State1=T State0=T
```

```
PORTA=0x00;
```

```
DDRA=0x00;
```

```
// Port B initialization
```

```
// Func7=In Func6=In Func5=In Func4=In Func3=In Func2=In Func1=In Func0=In
```

```
// State7=T State6=T State5=T State4=T State3=T State2=T State1=T State0=T
```

```
PORTB=0x00;
```

```
DDRB=0x00;
```

```
// Port C initialization
```

```
// Func7=In Func6=In Func5=In Func4=In Func3=In Func2=In Func1=In Func0=In
```

```
// State7=T State6=T State5=T State4=T State3=T State2=T State1=T State0=T
```

```
PORTC=0x00;
```

```
DDRC=0x00;
```

```
// Port D initialization
```

```
// Func7=In Func6=In Func5=In Func4=In Func3=In Func2=In Func1=In Func0=In
```

```
// State7=T State6=T State5=T State4=T State3=T State2=T State1=T State0=T
```

```
PORTD=0x00;
```

```
DDRD=0x00;
```

```
// Timer/Counter 0 initialization
```

```
// Clock source: System Clock
```

```
// Clock value: Timer 0 Stopped
```

```
// Mode: Normal top=0xFF
```

```
// OC0 output: Disconnected
```

```
TCCR0=0x00;
```

```
TCNT0=0x00;
```

```
OCR0=0x00;
```

```
// Timer/Counter 1 initialization
```

```
// Clock source: System Clock
```

```
// Clock value: Timer1 Stopped
```

```
// Mode: Normal top=0xFFFF
```

```
// OC1A output: Discon.
```

```
// OC1B output: Discon.
```

```
// Noise Canceler: Off
```

```
// Input Capture on Falling Edge
```

```
// Timer1 Overflow Interrupt: Off
```

```
// Input Capture Interrupt: Off
```

```
// Compare A Match Interrupt: Off
```

```
// Compare B Match Interrupt: Off
```

```
TCCR1A=0x00;
```

```
TCCR1B=0x00;
```

```
TCNT1H=0x00;
```

```
TCNT1L=0x00;
```

```
ICR1H=0x00;
ICR1L=0x00;
OCR1AH=0x00;
OCR1AL=0x00;
OCR1BH=0x00;
OCR1BL=0x00;

// Timer/Counter 2 initialization
// Clock source: System Clock
// Clock value: Timer2 Stopped
// Mode: Normal top=0xFF
// OC2 output: Disconnected
ASSR=0x00;
TCCR2=0x00;
TCNT2=0x00;
OCR2=0x00;

// External Interrupt(s) initialization
// INT0: Off
// INT1: Off
// INT2: Off
MCUCR=0x00;
MCUCSR=0x00;

// Timer(s)/Counter(s) Interrupt(s) initialization
TIMSK=0x00;

// USART initialization
// USART disabled
```

```
UCSRB=0x00;

// Analog Comparator initialization
// Analog Comparator: Off
// Analog Comparator Input Capture by Timer/Counter 1: Off
ACSR=0x80;
SFIOR=0x00;

// ADC initialization
// ADC disabled
ADCSRA=0x00;

// SPI initialization
// SPI disabled
SPCR=0x00;

// TWI initialization
// TWI disabled
TWCR=0x00;

// Alphanumeric LCD initialization
// Connections specified in the
// Project|Configure|C Compiler|Libraries|Alphanumeric LCD menu:
// RS - PORTC Bit 0
// RD - PORTC Bit 1
// EN - PORTC Bit 2
// D4 - PORTC Bit 3
// D5 - PORTC Bit 4
// D6 - PORTC Bit 5
```

```
// D7 - PORTC Bit 6
// Characters/line: 16
lcd_init(16);

while (1)
{
    lcd_gotoxy(0,0);
    delay_ms(10);

    lcd_puts("HELLO");
    delay_ms(10);

    lcd_gotoxy(0,1);
    delay_ms(10);

    lcd_puts("WORLD");
    delay_ms(10);

}
}
```