

# AVR Assembler Programming Tutorial

(1)

```
/* Write a program to find the sum of 8 bit variables A and B.
 * For this programming problem the sum may be greater than 255 if A and B
 * are unsigned or less than -128 and greater than 127 if signed.
 * Store the sum into 16 bit variable C using little endian byte ordering.
 * C = A + B
 */
```

```
.INCLUDE <m328pdef.inc>
```

```
.DSEG
```

```
A:      .BYTE 1
B:      .BYTE 1
C:      .BYTE 2
```

```
.CSEG
```

```
Adder816:
```

```
        ; load
        ; r1:r0 = 0:A
    clr  r1
    lds  r0,A
        ; r3:r2 = 0:B
    clr  r3
    lds  r2,B
        ; add
        ; add least significant bytes
    add  r0,r2
        ; add with carry most significant bytes
    adc  r1,r3
        ; store
```

```
        ; store least significant byte first
    sts  C,r0
    sts  C+1,r1
    rjmp Adder816
```

(2) Adding 16-bit Numbers adding two 16-bit numbers and store in given RAM Address 0x85 (in form of little endian). The code for this is shown below.

```
.include "m32def.inc"
```

```
.defnum1L = r16 ; define lower byte of number 1 as r16
```

```
.defnum1H = r17 ; define upper byte of number 1 as r17
```

```
.defnum2L = r18 ; define lower byte of number 2 as r18
```

```
.defnum2H = r19 ; define upper byte of number 2 as r19
```

```
.EQU RAM_ADDR = 0x80
```

```
.cseg
```

```
.org 0x00
```

```
ldi num1L,0x34 ; load 0x34 into r16
```

```
ldi num1H,0x00 ; load 0x00 into r17
```

# Avr Assembler

**Michal Rosen-Zvi**



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*Some Assembly Required* Timothy S Margush,2016-04-19 A family of internationally popular microcontrollers the Atmel AVR microcontroller series is a low cost hardware development platform suitable for an educational environment Until now no text focused on the assembly language programming of these microcontrollers Through detailed coverage of assembly language programming principles and technique

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web a the solid state has the least amount of entropy associated with it b the gaseous state has the least amount of entropy associated with it c the entropy of a system decreases as the matter in the system increases d the entropy of a system decreases as the temperature in the system increases e

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