

# 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

**Ensheng Dong**



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