

# 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

**Y Pai**



**Avr Assembler :**

## **Avr Assembler** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Avr Assembler** , a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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