

# 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

**Lewin Edwards**



## **Avr Assembler :**

*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

**Arduino: A Technical Reference** J. M. Hughes,2016-05-16 Rather than yet another project based workbook Arduino A Technical Reference is a reference and handbook that thoroughly describes the electrical and performance aspects of an Arduino board and its software This book brings together in one place all the information you need to get something done with Arduino It will save you from endless web searches and digging through translations of datasheets or notes in project based texts to find the information that corresponds to your own particular setup and question Reference features include pinout diagrams a discussion of the AVR microcontrollers used with Arduino boards a look under the hood at the firmware and run time libraries that make the Arduino unique and extensive coverage of the various shields and add on sensors that can be used with an Arduino One chapter is devoted to creating a new shield from scratch The book wraps up with detailed descriptions of three different projects a programmable signal generator a smart thermostat and a programmable launch sequencer for model rockets Each project highlights one or more topics that can be applied to other applications

**Programming and Customizing the AVR Microcontroller** Dhananjay Gadre,2000-10-09 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product How to take charge of the newest most versatile microcontrollers around Atmel s AVR RISC chip family with CD ROM This reader friendly guide shows you how to take charge of the newest most versatile microcontrollers around Atmel s AVR RISC chip family Inside Electronics World writer and astronomy instrumentation developer Dhananjay V Gadre walks you from first meeting these exciting new computers on a chip all the way through design and ready to launch products

**So You Wanna Be an Embedded Engineer** Lewin Edwards,2006-08-31 In this new highly practical guide expert embedded designer and manager Lewin Edwards answers the question How do I become an embedded engineer Embedded professionals agree that there is a treacherous gap between graduating from school and becoming an effective engineer in the workplace and that there are few resources available for newbies to turn to when in need of advice and direction This book provides that much needed guidance for engineers fresh out of school and for the thousands of experienced engineers now migrating into the popular embedded arena This book helps new embedded engineers to get ahead quickly by preparing them for the technical and professional challenges they will face Detailed instructions on how to achieve successful designs using a broad spectrum of different microcontrollers and scripting languages are provided The author shares insights from a lifetime of experience spent in the trenches covering everything from small vs large companies and consultancy work vs salaried positions to which

types of training will prove to be the most lucrative investments This book provides an expert s authoritative answers to questions that pop up constantly on Usenet newsgroups and in break rooms all over the world An approachable friendly introduction to working in the world of embedded design Full of design examples using the most common languages and hardware that new embedded engineers will be likely to use every day Answers important basic questions on which are the best products to learn trainings to get and kinds of companies to work for [tinyAVR Microcontroller Projects for the Evil Genius](#) Dhananjay Gadre,Nehul Malhotra,2011-01-31 CREATE FIENDISHLY FUN tinyAVR MICROCONTROLLER PROJECTS This wickedly inventive guide shows you how to conceptualize build and program 34 tinyAVR microcontroller devices that you can use for either entertainment or practical purposes After covering the development process tools and power supply sources tinyAVR Microcontroller Projects for the Evil Genius gets you working on exciting LED graphics LCD sensor audio and alternate energy projects Using easy to find components and equipment this hands on guide helps you build a solid foundation in electronics and embedded programming while accomplishing useful and slightly twisted projects Most of the projects have fascinating visual appeal in the form of large LED based displays and others feature a voice playback mechanism Full source code and circuit files for each project are available for download tinyAVR Microcontroller Projects for the Evil Genius Features step by step instructions and helpful illustrations Allows you to customize each project for your own requirements Offers full source code for all projects for download Build these and other devious devices Flickering LED candle Random color and music generator Mood lamp VU meter with 20 LEDs Celsius and Fahrenheit thermometer RGB dice Tengu on graphics display Spinning LED top with message display Contactless tachometer Electronic birthday blowout candles Fridge alarm Musical toy Batteryless infrared remote Batteryless persistence of vision toy Each fun inexpensive Evil Genius project includes a detailed list of materials sources for parts schematics and lots of clear well illustrated instructions for easy assembly The larger workbook style layout and convenient two column format make following the step by step instructions a breeze Make Great Stuff TAB an imprint of McGraw Hill Professional is a leading publisher of DIY technology books for makers hackers and electronics hobbyists *Electronics World* ,2006 **Nuts & Volts** ,2005 [A Microcontroller Based Control System for a Split Parallel Hybrid Electric Vehicle](#) Tareq Nisar Aryne,2001 [Electronic Design](#) ,2006 [COTS Dust](#) Seth Edward-Austin Hollar,2000 **Embedded Microprocessor Systems** Stuart R. Ball,2000 Embedded Microprocessor Systems is an introduction to the design of embedded microprocessor systems from the initial concept through debugging the final result Unlike many books on the market Embedded Microprocessor Systems is not limited to describing any specific processor family but covers the operation of and interfaces to several types of processors with an emphasis on cost and design tradeoffs Included throughout the book are numerous examples tips and pitfalls you can only learn from an experienced designer Not only will you find out how to implement faster and better design processes but also how to avoid time consuming and expensive mistakes The author s many years of experience in industry have given him

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