



Group 1  
TUP.A51  
asm

```

01  ORG  00H
02
03          MOV  A,  #32H
04
05          MOV  R2, #00H
06          CLR  C
07
08  AGAIN:   JC   END1
09          MOV  R0, A
10          SUBB A, #0AH
11          INC  R2
12          SJMP AGAIN
13
14  END1:    DEC  R2
15          MOV  A,  R2
16          CLR  C
17          MOV  R2, #00H

```

# 8051 Assembly Code Examples

**Didier Musso**



## 8051 Assembly Code Examples:

*C and the 8051* Thomas W. Schultz, Thomas Schultz, 2004 This totally reworked book combines two previous books with material on networking It is a complete guide to programming and interfacing the 8051 microcontroller family devices for embedded applications

The 8085 Microprocessor K. Udaya Kumar, 2008 Designed for an undergraduate course on the 8085 microprocessor this text provides comprehensive coverage of the programming and interfacing of the 8 bit microprocessor Written in a simple and easy to understand manner this book introduces the reader to the basics and the architecture of the 8085 microprocessor It presents balanced coverage of both hardware and software concepts related to the microprocessor

*Introduction to embedded systems* Dr GOURI GOURAM BORTHAKUR, 2023-10-17 This book is designed to be your comprehensive guide to understanding designing and working with embedded systems whether you are a novice enthusiast a student or a seasoned professional in the field Embedded systems are the invisible heroes that power our modern world They are the brains behind your smartphone the controllers of your car s engine and the intelligence within your home appliances These systems are omnipresent hidden in devices ranging from simple digital watches to complex spacecraft They are responsible for making our lives more comfortable efficient and secure The field of embedded systems is vast and continually evolving This book aims to provide you with a solid foundation whether you are just beginning your journey or seeking to deepen your knowledge We ve designed this book to be accessible to beginners while offering valuable insights for experienced engineers

*Microcontrollers* Atul P. Godse, Dr. Deepali A. Godse, 2020-12-01 The book is written for an undergraduate course on the 8051 and MSP430 microcontrollers It provides comprehensive coverage of the hardware and software aspects of 8051 and MSP430 microcontrollers The book is divided into two parts The first part focuses on 8051 microcontroller It teaches you the 8051 architecture instruction set programming 8051 and interfacing 8051 with external memory It explains timers counters serial port interrupts of 8051 and their programming It also describes the interfacing 8051 with data converters ADC and DAC keyboards LCDs LEDs stepper motors and DC motor interfacing The second part focuses on MSP430 microcontroller It teaches you the low power features architecture instruction set programming digital I O and on chip peripherals of MSP430 It describes how to use code composer studio for assembly and C programming It also describes the interfacing MSP430 with external memory LCDs LED modules wired and wireless sensor networks

Microcontroller Applications Ritula Thakur, 2025-06-01

**Ciarcia's Circuit Cellar** Steve Ciarcia, 1985

*Microcontrollers and Applications* Santanu Chattopadhyay, 2025-06-01

Data Acquisition Databook , 1995

8051 Microcontroller, The: A Systems Approach Muhammad Ali Mazidi, Janice G. Mazidi, Rolin D. McKinlay, 2013-10-03 For courses in 8051 Microcontrollers and Embedded Systems The 8051 Microprocessor A Systems Approach emphasizes the programming and interfacing of the 8051 Using a systematic step by step approach the text covers various aspects of 8051 including C and Assembly language programming and interfacing Throughout each chapter examples sample programs and

sectional reviews clarify the concepts and offer students an opportunity to learn by doing

**Programming and Interfacing the 8051 Microcontroller** Sencer Yeralan, Ashutosh Ahluwalia, 1993 Background Assembly language programming Assembly language techniques Introductory experiments Hardware experiments Enhanced members of the 8051 family Building an 8051 based microcontrollers system Developing microcontroller applications General purpose system calls 8051 family products and vendors

**The 8051/8052 Microcontroller** Craig Steiner, 2005 This book was written with the novice or intermediate 8052 developer in mind Assuming no prior knowledge of the 8052 it takes the reader step by step through the architecture including discussions and explanations of concepts such as internal RAM external RAM Special Function Registers SFRs addressing modes timers serial I O and interrupts This is followed by an in depth section on assembly language which explains each instruction in the 8052 instruction set as well as related concepts such as assembly language syntax expressions assembly language directives and how to implement 16 bit mathematical functions The book continues with a thorough explanation of the 8052 hardware itself reviewing the function of each pin on the microcontroller and follows this with the design and explanation of a fully functional single board computer every section of the schematic design is explained in detail to provide the reader with a full understanding of how everything is connected and why The book closes with a section on hardware interfacing and software examples in which the reader will learn about the SBCMON monitor program for use on the single board computer interfacing with a 4x4 keypad communicating with a 16x2 LCD in direct connect as well as memory mapped fashion utilizing an external serial EEPROM via the SPI protocol and using the I2C communication standard to access an external real time clock The book takes the reader with absolutely no knowledge of the 8052 and provides him with the information necessary to understand the architecture design and build a functioning circuit based on the 8052 and write software to operate the 8052 in assembly language

**The 8051 Microcontroller and Embedded Systems** Muhammad Ali Mazidi, Janice Gillispie Mazidi, 2000 For courses teaching the 8051 Microcontroller This book uses a step by step approach to teach the fundamentals of assembly language programming and interfacing of the 8051 microcontroller It uses many examples to clarify concepts Simple concise examples are utilized to show what action each instruction performs then a sample is provided to show its application This text provides a comprehensive understanding of the internal organization of the 8051 registers and resources in a way that sheds the student's fear of assembly language Whether students become designers of stand alone systems or complex embedded systems they will find this text a useful resource

Embedded Systems Programming , 2000-04      *Circuit Cellar Ink* , 1998      Wescon/87 Conference Record , 1987

**Microprocessor Systems** James W. Stewart, 1990      **Personal Engineering and Instrumentation News** , 1991

*1995 Product Line Databooks: Embedded applications (2 v.)* Intel Corporation, 1993      **Embedded Applications** , 1995

The Software Encyclopedia , 1988

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