



Here I am providing all the nine basic Programs that one needs to know if they are studying the *Intel 8085 Microprocessor*.

You see I was in the third semester at the writing of this blog. I was a student of *Physics Honors* in Delhi University.

I had a subject called *Digital Systems and Principles* in which we had to program the Intel 8085 Microprocessor in our Labs. So these are actually the Lab-write-ups and hence are written in a very well formatted way.

The format is: *Aim, Algorithm, Flow-chart, Program and the output*.

So there should be no problem in understanding them. They are available as word files also which you can edit to your liking.

1. Addition of 8-bit numbers using In-direct Addressing Mode
—[Word file](#)—[Pdf file](#)—[Internal link](#)
2. Addition of 8-bit numbers using Direct Addressing Mode
—[Word file](#)—[Pdf file](#)—[Internal link](#)
3. Addition of 16-bit Hexadecimal numbers
—[Word file](#)—[Pdf file](#)—[Internal link](#)
4. Subtraction of 8-bit numbers using Direct Addressing Mode

—[Word file](#)—[Pdf file](#)—[Internal link](#)

5. Subtraction of 8-bit numbers using In-direct Addressing Mode

—[Word file](#)—[Pdf file](#)—[Internal link](#)

6. Subtraction of 16 -bit Hexadecimal numbers

—[Word file](#)—[Pdf file](#)—[Internal link](#)

7. Division of 8-bit Hexadecimal Numbers

— [Word file](#)—[Pdf file](#)—[Internal link](#)

8. Multiplication of 8-bit Hexadecimal Numbers

—[Word file](#) —[Pdf file](#)—[Internal link](#)

9. Find the Parity of a Number

— [Word file](#)—[Pdf file](#)—[Internal link](#)

Or If you want *all the above Programs*, just download this Zip file: [microprocessor 8085 basic programs with algorithms and flowcharts](#)

You can extract it. It has all the above mentioned programs in Word and PDF format.

If you are new to 8085 Programming and want to know how to give the commands and run them, I recommend you to watch this video for a better understanding. I made it in my college lab of Acharya Narendra Dev College.

<https://www.youtube.com/watch?v=bHAuQgv3kEM>

Don't Forget to say Thanks! in the comments. Share the link for your friends.

If you find a broken link or some mistake in the programs please notify me through the comments. I will be grateful.

Hope you like these.



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I'm a physicist specializing in computational material science with a PhD in Physics from Friedrich-Schiller University Jena, Germany. I write efficient codes for simulating light-matter interactions at atomic scales. I like to develop Physics, DFT, and Machine Learning related apps and software from time to time. Can code in most of the popular languages. I like to share my knowledge in Physics and applications using this Blog and a YouTube channel.

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