

Computer Engineering Department, SVNIT, Surat

Course: Microprocessor and Interfacing Techniques (CS202)

Assignment – I

Download GNU Simulator 8085 from below link:

<https://gnusim8085.github.io/>

(Use of instructions: ADD, SUB, STA, LDA, MVI, MOV)

1. Store the data byte 25H into memory location 3000H.
2. Write a program to add two 8-bit numbers. Store the result at one memory location.
3. Write a program to subtract two 8-bit numbers. Store the result at one memory location.
4. Exchange the contents of memory locations 2000H and 4000H.
5. Write a program to add two 16 bit numbers. Numbers are stored in four consecutive memory location as 8-bit numbers. (Use instruction ADC)
6. Write a program to subtract two 16 bit numbers. Numbers are stored in four consecutive memory location as 8-bit numbers. (Use instruction SBB)