CS322- Lab 3

Assembly language Programming

The goal of this is to familiarize the students with x86 assembly language features.

Part 1: 16 bit Assembly language programming

In this section we use emulator to run 16 bit assembly

Step1: install: DOSBox

First, run dosbox.exe, You have to basically set that as new directory just for DOSBox.

Essentially, it's going to become the C:\> drive of 8086. So, type:

Z:\>MOUNT C C:\8086

Drive C mounted as local directory C:\8086\

Now have to compile the program.

- > masm Yourfilename.asm
- > link Yourfilename.obj
- >debug Yourfilename.exe

Exercise 1:

- > masm avr.asm
- > link avr.obj
- >debug avr.exe

Exercise 1:

Computer the debug tutorial

Your assignment:

P1 1:

Write an assembly language program to find sum of 5 numbers.

Ans here:

P1 2:

Write an assembly language program to find average of the given set of numbers.

Ans here:

P1_3:

Write an assembly language program to sort the given set of numbers.

Ans here:

P1_4

Select three small problems of your own and write three assembly language programs to solve them. (submit P1_4a.asm, P1_4b.asm, and P1_4c.asm,; include problem at the beginning of the asm file as comment statements)

Your Lab Assignment 3 (50 points)

Submission:

Fill about problems and Course work submission through cs322.iitp@gmail.com with subject: YourrollNo_Lab3. **Due on** 10^{th} August 5 PM .