



Computer Architecture and Assembly Language Programming

Lab Task

Time: 40 Min

Q. Write an assembly language program to add all the digits of your Roll No and store the sum in memory.

- Store all the digits of Roll No in the memory.
- Use jumps to add the digits.
- If the number is 0, then the program should not add that digit and move to the next digit.
- Store the sum in another variable.

Note: Make it sure to use your own Roll No, otherwise zero marks will be awarded.

Submission details:

Following are required in a single MS-Word document.

- Assembly language program.
- Screenshot of AFD debugger at the start of program.
- Screenshot of AFD debugger showing the final values.

“Best of luck”