## COE 205, Term 052

# Computer Organization \& Assembly Programming 

Programming Assignment\# 2<br>Due date: Saturday, April 8, 2006

Q.1. Write an assembly program that does the following:
(i) Ask the user to enter the number of rows N (maximum 99) and read it.
(ii) Ask the user to enter the number of columns M (maximum 99) and read it.
(iii) Ask the user to enter a two-dimensional array of NxM numbers. Each number is a score between 0 and 100. Elements of a single row should be separated by a single space and each row is read in a new line.
(iv) Ask the user to select a column.
(v) In a new line, print the scores in a column, their sum and their average rounding the result to one decimal digit.
A sample execution of the program is shown below:
Enter the number of rows: 5
Enter the number of columns: 4
Enter an array of $5 \times 4$ scores:
991002080
30278870
90856025
45647555
70685890
Select a column: 1
The scores in column 1 are:
100
27
85
64
68
The sum of the scores is: 344
The average of the scores is: 68.8
It is very important that you strictly follow the format given to you in the sample execution of the program.

The solution should be well organized and your program should be well documented. Submit a soft copy of your solution in a zip file. The soft copy should include a Readme file indicating the file names containing the solution and whether it works or not. The Readme file should also contain your name and ID. Submit both source code file (i.e. .asm) and the executable file (i.e. .exe).

