COE 205, Term 042

Computer Organization & Assembly Programming
Programming Assignment# 4

Due date: Sunday, May 8, 2005

You are required to write an assembly program to do the following:

(i)   Read a list of names and scores. When the first character read is a carriage return this indicates the end of the list.

(ii)   Sort the names and scores from the highest score to the lowest score and display them. You can use any sorting method to sort your data.

(iii)   Print the average of the scores within one decimal digit. Also, print the maximum and the minimum of the score.

Use the TAB character to format your output. A sample execution of the program is given below:

Enter the list of names and scores:
Ali 80
Muhammad 95
Khaled 66
Omar 87
Majed 70

The list of sorted names and scores is:

Muhammad   95
Omar   87
Ali   80
Majed   70
Khaled   66

The average of scores is: 79.6
The maxuimum is: 95
The minimum is: 66

Make sure that your program is well documented. Provide a hard copy of the program and a soft copy of both the assembly code and the executable stored in a floppy disk.