

COE 205, Term 052

Computer Organization & Assembly Programming

Programming Assignment# 1

Due date: Saturday, March 18, 2006

- Q.1.** Write an 8086 assembly program that does the following:
- (i) Ask the user to enter his initial name. Assume that the maximum name length is 10 characters.
 - (ii) Ask the user to enter his family name. Assume that the maximum name length is 15 characters.
 - (iii) Display a greeting message in a new line saying Hello followed by the entered initial name and the family name.
 - (iv) Print in a new line the initial name in reverse order.
 - (v) Prompt the user to enter a number, n, between 0 and 9.
 - (vi) Display the numbers in a new line starting from the entered number down to 0.

A sample execution of the program is shown below:

```
Enter your initial name: Aiman
Enter your family name: El-Maleh
Hello Aiman El-Maleh
Your initial name in reverse order is namiA
Enter a number (0-9): 7
7 6 5 4 3 2 1 0
```

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).