

COE 205, Term 031

Computer Organization & Assembly Programming

Programming Assignment# 2
Due date: Sunday, Oct. 26, 2003

- Q.1.** Write an assembly program that does the following:
- (i) Ask the user to enter a number N (1-9).
 - (ii) Ask the user to enter a two-dimensional array of NxN digits. Elements of a single row should be separated by one or more spaces and each row is read in a new line.
 - (iii) Ask the user to select two rows or two columns. Then, exchange the two rows or two columns and print the array after the exchange

A sample execution of the program is shown below:

```
Enter the dimension of the array (1-9): 3
Enter the array:
1 2 3
4 5 6
7 8 9
Enter your choice (0-row, 1-column, 2-stop the program): 0
Enter the first row number: 0
Enter the second row number: 2
Array after exchange is:
7 8 9
4 5 6
1 2 3
Enter your choice (0-row, 1-column 2-stop the program): 1
Enter the first column number: 1
Enter the second column number: 2
Array after exchange is:
7 9 8
4 6 5
1 3 2
Enter your choice (0-row, 1-column, 2-stop the program): 2
Program is terminating ...
```

Include both a hard and soft copy of your program in an envelope that contains your name and ID. The solution should be well organized and your program should be well documented. The soft copy should be submitted in a floppy including 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.