

**CS238 – ASSEMBLY LANGUAGE PROGRAMMING**

**PROGRAMMING ASSIGNMENT 5**

**DUE DATE: 05/02/2011 (STRICT DEAD LINE)**

**SUBMISSION RULES**

**Groups with 3 students, solve all three questions.**

**Groups with 2 students, solve any two.**

**Groups with 1 student, solve either 1 or 3.**

1. Write a program to calculate the product of two SQUARE MATRICES. The flow of the program should be:
  - a. Ask the user for the size (n) of the matrix. Example: If  $n = 2$ , then its 2 X 2 matrix, if  $n = 3$ , then it's a 3 X 3 matrix
  - b. Then user should be asked for Matrix Values. For Example, if  $n=2$ , then user should input 4 Values for each matrix; total 8 values. If  $n=3$ , then 9 values for each matrix. Values are entered in row by row fashion.
  - c. Then multiply the respective values and store it in a destination matrix.
  - d. Draw the flow chart for the above program.
2. Write an assembly program for finding whether the given number is prime or not. Your program should prompt the user for a number and then display a message indicating whether or not the number is prime. The program should then ask for another number from the user. **DO NOT** use any *decision directives*.
3. **Page 417: Question 9. DO NOT** use any *decision directives*.

**Submit: A flow chart, .asm file, list file and an executable for each program.**

**Zip file format: group[#].zip** (Group Numbers will be posted on blackboard.)