Assignment 6-8

Notes:

a) **If you are intelligent enough, you can avoid repetitive code and write a group of function in a single program.**

b) **Try to write efficient code (less execution time and/or less space)**

c) **Due date:** Just After I mid term. CR will be responsible to collect the hard copies and submit to me with the list who have submitted (no soft copies will be allowed).

1. Write a program to find multiplication of two matrices of size m x n and n x l.
2. Write a program to find determinant of a 3 x 3 matrix.
3. Write a program to find sum of _____ of a 5 x 5 matrix:

   a) Diagonal elements
   b) Reverse diagonal elements
   c) Lower triangular elements
   d) Upper triangular elements
   e) Each row
   f) Each column
   g) all even values
   h) all values divisible by 5

4. Write a program to sort each row of a matrix.
5. Write a program to sort each column of a matrix.
6. Write a program to sort a matrix row wise.
7. Write a program to sort a matrix column wise.
8. Write a program to find inverse of a matrix.
9. Write a program to find determinant of a n x n matrix using recursive function.