# LAB SHEET 6

## Multi Dimensional Arrays

1. Write a program to add 2 matrices.
2. Write a program to find the transpose of a given matrix. The transpose should be stored in a separate 2 D array.
3. Write a program to multiply 2 matrices.
4. In a company there are 5 sales men. Each sales man is supposed to sell 3 products. Write a program to print the total sales by each sales man and total sales of each item.
5. Write program to read marks of 4 subjects of 15 students.
     i.   Find the total marks and average of each student.
     ii.  Calculated the class average for the 4 subjects.
     iii. Find the highest mark in each subject.
6. Write a program to read a matrix from the user and do the following:
     i.   Print the upper triangular matrix
     ii.  Print the lower triangular matrix
     iii. Print the diagonal elements