Data structures Lab

Exercise -1 Date: 6/7/26

1) **Compare any two strings - use pointers.**

2) **Perform matrix multiplication –without using pointer.**

3) **Perform matrix subtraction – use pointers.**

4) **Write a program to create a list (stores integer elements) using array and perform the following operations on it. write function to implement each operation.**
   a) **Insertion by giving position (1,2,3..)**
   b) **Deletion by giving position**
   c) **Make empty**
   d) **Next**
   e) **previous**
   f) **Display the list**
   g) **Find given element**
   h) **Find the kth occurrence of the element**
5) **Write a program to create a structure called student. The student structure includes regno, name,mark[6], total and grade. Create an array of structures and Perform the following operations on it.**
   i) **find the total and grade**
   j) **find the name of the student who got the highest total**
   k) **sort the students based on total.**

6) **Modify the above program to allocate memory dynamically for n students. Store the student's details in allocated memory and display the same.**