**DATA STRUCTURES USING C -LAB CYCLE**

1. Write programs to demonstrate the use of storage classes (local variable, global variable, static variable, register variable) in C.
2. Use a menu-driven program to insert, search, delete and sort elements in an array using functions (use global variables)
3. Use a menu-driven program to insert, search, delete and sort elements in an array using functions (use only local variables)
4. Search for all the occurrences of an element in an integer array (positions)
5. Sort the array elements in ascending order (minimum three functions: read, disp and sort)
6. Display the array elements in the same order using a recursive function
7. Display array elements in reverse order using a recursive function .
8. Write a program to Perform the addition of two matrix and Subtraction of one matrix from another
9. Write a program to perform multiplication of two matrix
10. Write a program to find the transpose of a matrix
11. Write a program to find the Determinant of a matrix (2x2 and 3x3)

**Section 2: Stack**

1. Implement stack operations using arrays

**Session 3 - String**

1. Read a String and Just print it in the reverse order
2. Read a String and Reverse the string in the same array itself
3. Read n Strings and display them in the ascending order.

**Session 4 - Stack .. Continued**

1. Reverse a string using Stack