

### **LAB-3**

- 1.WAP to create a 1-D array of n elements and perform the following menu based operations using function.
  - a. insert a given element at specific position.
  - b. delete an element from a specific position of the array.
  - c. linear search to search an element
  - d. traversal of the array
- 2.WAP to insert a new element into a sorted array at the appropriate position
- 3.Write a program to perform the following operations on a given square matrix:
  - i. Find the no.of nonzero elements
  - ii. Display upper triangular matrix
  - iii. Display the elements of just above and below the main diagonal
- 4.WAP to represent a given sparse matrix in 3-tuple format using 2-D array.
- 5.WAP to perform transpose of a given sparse matrix in 3-tuple format.
- 6.WAP to represent the polynomial of single variable using 1-D array and perform the addition of two polynomial equations
- 7.WAP to represent the polynomial of single variable using 1-D array and perform the addition of two polynomial equations.