## **GLS UNIVERSITY**

## Faculty of Computer Applications & Information Technology BCA Programme SEM III DATA STRUCTURE PRACTICAL Module – 1

## \* Perform below all the practical using C++ concepts:

- 1. Write a program that will perform all the following array operations:
  - Insert an element into an array
  - Delete an element from an array
  - Read an array elements
  - Display the array elements
  - Search an array element
- 2. Write a program that will perform all the following array operations:
  - Sort the array
  - Reverse the array
- 3. Write a program to create a sparse matrix.
- 4. Write a program to check and create a square matrix
- 5. Write a program to check and create Lower matrix and Upper matrix.
- 6. Write a program to find sum and average of diagonal elements.
- 7. Write a program to check and create diagonal matrix.
- 8. Write a program to check and create identity matrix.