**Data Structure Lab**

**MCA- 112**

**Lab Manual 1**

**(From Jan 1, 2019 to Jan 11, 2019)**

**Operations on Individual Elements of an Array**

1. C Program to Find the Number of Elements in an Array
2. C Program to Check Array bounds while Inputing Elements into the Array
3. C Program to Print the Alternate Elements in an Array
4. C Program to Find the Odd Element given an Array with only two Different Element
5. C Program to Increment Every Element of the Array by One & Print Incremented Array
6. C Program to Find the Number of Non Repeated Elements in an Array
7. C Program to identify missing Numbers in a given Array
8. C Program to Segregate 0s on Left Side & 1s on right side of the Array
9. C Program to Find 2 Elements in the Array such that Difference between them is Largest.

## Printing the Elements of an Array

1. C Program to Generate Pascal Triangle 1 D Array
2. C Program to Print the Number of Odd & Even Numbers in an Array
3. C Program to Print All the Repeated Numbers with Frequency in an Array
4. C Program to Print the kth Element in the Array

## Inserting and Deleting Elements to and from an Array

1. C Program to Put Even & Odd Elements of an Array in 2 Separate Arrays
2. C Program to Insert an Element in a Specified Position in a given Array
3. C Program to Delete the Specified Integer from an Array
4. C Program to Cyclically Permute the Elements of an Array