

Data Structures and Algorithms Laboratory
Paper code –ES-CS391
3rd Semester ECE1

Assignment #16:

1. Write programs to perform following operations using functions:

- a. Creation of Doubly Circular Linear Linked list
- b. Display of Doubly Circular Linear Linked list
- c. Insert a node in different positions of Doubly Circular Linear Linked list
- d. Delete a node from different positions of Doubly Circular Linear Linked list

2. Write recursive functions for the following

- a. To calculate factorial of an integer number. (try taking big number also).
- b. To calculate GCD / HCF of n integer numbers.
- c. To generate Fibonacci series up to n terms.
- d. To solve Tower of Hanoi problem for different number of disks.