

GLS UNIVERSITY
Faculty of Computer Applications & Information Technology
Integrated MSc (IT)
Semester-IV
221601406 PRACTICALS ON DATA STRUCTURE
Unit 2 Assignment

1.	Write a CPP program using switch case as below: 1. Create a single linked list (Sorted Linked List) 2. Display single linked list 3. Remove the duplicate value (if any)
2.	Write a CPP program using switch case as below: 1. Create a single linked list 2. Display single linked list 3. Delete the 3rd Node from the LinkedList
3.	Write a CPP program using switch case as below: 1. Create a single linked list 2. Insert a node in the middle 3. Insert a node in the beginning 4. Insert a node in the end 5. Display single linked list
4.	Write a CPP program using switch case as below: 1. Create a single linked list 2. Delete a particular node having value entered by value 3. Delete the first node 4. Delete the last node 5. Display single linked list
5.	Write a CPP program using switch case as below: 1. Create a double linked list 2. Insert a node in the ending 3. Insert a node in the beginning 4. Insert a node in the middle 5. Display double linked list
6.	Write a CPP program using switch case as below: 1. Create a double linked list 2. Delete a node from the beginning 3. Delete a node from the end 4. Delete a node in the middle 5. Display double linked list
7.	Write a CPP program to count the length of the Double LinkedList.
8.	Write a CPP program using switch case as below: 1. Create a circular single linked list 2. Insert a node in the beginning 3. Insert a node in the end

	4. Insert a node in the middle 5. Display circular linked list
8.	Write a CPP program using switch case as below: 1. Create a circular single linked list 2. Delete a node in the beginning 3. Delete a node in the end 4. Delete a node from the middle 5. Display single circular linked list
8.	Write a CPP program to sum all the elements of the single Circular Linked list.
9.	Write a CPP program to print all the elements of Single Linkedlist in sorted Order.
10.	Write a CPP program using switch case as below: 1. Create a circular Double linked list 2. Insert a node in the beginning 3. Insert a node in the end 4. Insert a node in the middle 5. Display Double circular linked list
11.	Write a CPP program using switch case as below: 1. Create a circular Double linked list 2. Delete a node in the beginning 3. Delete a node in the end 4. Delete a node from the middle 5. Display Double circular linked list
12.	Write a CPP program to search an element from the Single linkedlist.
13.	Write a CPP program to check whether the linkedlist is circular or not.