

**Assignment-5**  
**Submission Date: 21/03/24**

**Assignment Submission Instruction**

*Solve assignment questions in assignment copy. Sign every page of assignment.  
Make a pdf file and send it to CR.*

1. Make a comparison between a linked list and a linear array. Which one will you prefer to use and when?
2. Why is a doubly linked list more useful than a singly linked list?
3. Give the advantages and uses of a circular linked list.
4. Specify the use of a header node in a header linked list.
5. Explain the difference between a circular linked list and a singly linked list.
6. Form a linked list to store students' details. (Just give template of structure)

**Programming Exercises**

1. Write a program to print the total number of occurrences of a given item in the linked list.
2. Write a program to multiply every element of the linked list with 10.
3. Write a program to print the number of non-zero elements in the list.
4. Write a program to merge two linked lists.