

## Lab 07 – LinkedList Applications

1. **Addition of two polynomials using DCLL:** Write a program to perform the addition of two polynomials represented using **double circular linked list** with header and display the result.
2. **Set Operations using SCLL:** Write a program using a singly circular linked list to implement Union and Intersection operations.
3. **Addition of two long numbers using DCLL:** Write a program to add two long integers represented using circular doubly linked list with header node.
4. **Reverse a DCLL:** Reverse a double circular linked list containing words.
5. **Sparse Matrix using DLL:** Represent a sparse matrix using a doubly linked list.
  - a. Sparse Matrix – matrix with most of the elements being zero