

**M.K.INSTITUTE OF COMPUTER STUDIES, BHARUCH****SY BCA SEM-III****Paper: 304 Data Structures**  
**Assignment - 3**

1. Write a program to calculate total number of nodes in link list.
2. Write a program to reverse a link list.
3. Write a program to perform addition of 2 polynomials using link list.
4. Write a program to concatenate 2-linked list and display the elements.
5. Convert infix to postfix and evaluate it.
6. WAMP insertion, deletion & display elements in simple queue.
7. WAMP for insertion, deletion & display in circular queue using pointer.
8. WAMP for insertion & deletion in input restricted queue using pointers.
9. WAMP for insertion & deletion in output restricted queue using pointers.
10. Write a program to push (), pop () operation of stack when stack is implemented using singly linked list.
11. Write a menu driven program to insert data into stack. Whenever overflow operation occur, transfer the data to singly linked list.
12. WAP to do INSERTION sort.
13. WAP to do BUBBLE sort.
14. WAP to do SELECTION sort.
15. WAP to do QUICK sort.
16. WAP to perform LINEAR search.
17. WAP to perform BINARY search.
18. WAP to do MERGE sort.
19. WAP to find factorial & Fibonacci series using recursion.
20. WAP to find multiplication & GCD of 2 numbers using recursion.