S. V. National Institute of Technology Surat
Computer Science and Engineering Department
Data Structure
Lab Assignment 6

1. Implement Circular Queue and perform the following operations:
    a. **Front:** It is used to get the front element from the Queue.
    b. **Rear:** It is used to get the rear element from the Queue.
    c. **enQueue(value):** This function is used to insert the new value in the Queue. The new element is always inserted from the rear end.
    d. **deQueue():** This function deletes an element from the Queue. The deletion in a Queue always takes place from the front end.
2. For a given array of size 'N', create a linked list and display it.
3. Write a menu-driven program to create a linked list and perform the following operations:
    1) Insert in beginning
    2) Insert at last
    3) Insert at any random location
    4) Delete from Beginning
    5) Delete from last
    6) Delete node after specified location
    7) Search for an element
    8) Exit