## **Data Structure Quiz 4**

## **Total Marks 10**

Name:	Roll No.	

Node T

Last

Question: Implement a function to insert and delete a node at start in singly

circular linked list.

```
class Node {
public:
    int data;
    Node* next;
    Node(int val) : data(val), next(nullptr) {}
}Node *head;
void insertAtStart(int val) {
                                                          After insertion,
    Node* newNode = new Node(val);
    if (!head) {
        head = newNode;
        head->next = head; // Point to itself for
                                                             Node T
    }
                                                              10
    else {
        Node* temp = head;
        while (temp->next != head) {
            temp = temp->next;
        temp->next = newNode;
        newNode->next = head;
        head = newNode;
    }
}
void deleteAtStart() {
    if (!head) {
        cout <<"List is empty. Cannot delete."<<endl;</pre>
        return;
    }
    Node* temp = head;
                                                               After Deletion
    Node* lastNode = head;
    while (lastNode->next != head) {
        lastNode = lastNode->next;
    }
    if (temp == lastNode) {
        // Only one node in the list
        delete temp;
        head = nullptr;
    }
    else {
        head = temp->next;
        lastNode->next = head;
        delete temp;
    }
}
```