

Name: Manoj R
Mail_Id:manojr82092@gmail.com
Mob.no:9110629643

Assignment 3

Date:27/09/2021

```
#include <iostream>
using namespace std;

struct node
{
    int num;
    node *nextptr;
}*stnode;

void createList(int n);
void Delete_end();
void display();

int main()
{
    int n,num,pos;

    cout<<"Enter the number of nodes: ";
    cin>>n;
    createList(n);
    cout<<"\nLinked list data: \n";
    display();

    Delete_end();
    cout<<"\nLinked list after deletion: \n";
    display();

    return 0;
}

void createList(int n)
{
    Node*nptr=new Node;
    nptr->data=n;
    nptr->next=NULL;
    return nptr;
}

void Delete_end()
{
    struct node *dellast, *preNode;
    if(stnode == NULL)
    {
        cout<<"List is empty";
    }
    else
    {
```

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```
    delLast = stnode;
    preNode = stnode;

    while(toDelLast->nextptr != NULL)
    {
        preNode = delLast;
        delLast = delLast->nextptr;
    }
    if(delLast == stnode)
    {
        stnode = NULL;
    }
    else
    {
        preNode->nextptr = NULL;
    }

    free(delLast);
}
}
void display()
{
    struct node *tmp;
    if(stnode == NULL)
    {
        cout<<" No data found in the list";
    }
    else
    {
        tmp = stnode;
        cout<<"Linked List: ";
        while(tmp != NULL)
        {
            cout<<"\t"<<tmp->num;
            tmp = tmp->nextptr;
        }
    }
}
```