#include <iostream>

#include <iomanip>

#include <fstream>

#include "list.h"

using namespace std;

linkedList::linkedList()

{

head = NULL;

current = NULL;

temp = NULL;

tail = NULL;

}

void linkedList::addNode(int addData)

{

node\* val = new node;

val-> link = NULL;

val-> data = addData;

if(head != NULL)

{

current = head;

while(current-> link != NULL)

{

current = current-> link;

}

current->link = val;

}

else

{

head = val;

}

}

void linkedList::printList()

{

setfill(' ');

current = head;

if(head != NULL)

{

current = head;

while(current-> link != NULL)

{

current = current-> link;

}

current->link = val;

}

else

{

head = val;

}

}

void linkedList::printList()

{

setfill(' ');

current = head;

for(int i =0; i<20; i++)

{

for(int j = 0; j<5; j++)

{

cout<<left<<setw(8)<< current->data;

current = current-> link;

}

cout<<endl;

}

}

void linkedList::displayNode()

{

int x;

current = head;

cout <<"Select any item by numerical position "<<endl;

do{

cout<<"input: ";

cin >> x;

for(int i =0; i<20; i++)

{

for(int j = 0; j<5; j++)

{

cout<<left<<setw(8)<< current->data;

current = current-> link;

}

cout<<endl;

}

}

void linkedList::displayNode()

{

int x;

current = head;

cout <<"Select any item by numerical position "<<endl;

do{

cout<<"input: ";

cin >> x;

}

while(x < 0 || x > 100);

for(int i= 0; i<x-1; i++)

current= current->link;

for(int j=0; j<100-1; j++)

tail = current->link;

cout <<endl<<"Item at position: "<<x<<endl;

cout <<"node points to "<<current->data<<endl;

cout <<"node is at "<<current<<endl<<endl;

cout <<"--------------------------"<<endl;

cout << "Head is at "<< head<<endl;

cout << "Head data:"<< head->data<<endl<<endl;

cout << "Tail is at "<< tail<<endl;

cout << "Tail data:"<< tail->data<<endl<<endl;

cout <<"--------------------------"<<endl;

}

linkedList::~linkedList()

{

}