# SOURCE CODE:

#include <bits/stdc++.h> #include<iostream> using namespace std;

class Node{ public: int prn;

int count = 0; string name; Node\* next;

Node(int prn, string name){ this->prn = prn;

this->name = name; this->next = next;

}

public: void addpresident(Node\* head); Node\* delpresident(Node\* head); void addmembers(Node\* head); Node\* delmembers(Node\* head); void addsecretary(Node\* head); Node\* delsecretary(Node\* head); void countOfMembers();

void display(Node\* head);

Node\* combine(Node\* head1, Node\* head2);

};

void Node::addpresident(Node\* head){ count++;

int prn; string name;

cout << "Enter PRN number : "; cin>>prn;

cout << "Enter name : "; cin>>name;

Node\* temp = new Node(prn,name); if (head == NULL){

head = temp; return;

}

temp->next = head->next; head->next = temp;

}

Node\* Node::delpresident(Node\* head){ Node\* temp = head;

head = temp->next; free(temp);

return head;

}

void Node::addmembers(Node\* head){

count++; int prn;

string name;

cout << "Enter PRN number : "; cin>>prn;

cout << "Enter name : "; cin>>name;

Node\* temp = new Node(prn, name); if (head == NULL){

cout << "President must be added first " << endl; return;

}

Node\* president = head;

temp->next = president->next; president->next = temp;

}

Node\* Node::delmembers(Node\* head){ Node \*temp,\*t1;

int pn; temp=head;

cout<<"\nEnter the PRN number after which u want to delete member: "; cin>>pn;

while(temp!=NULL)

{

if(temp->prn==pn)

{

t1=temp->next;

temp->next=t1->next; free(t1);

break;

}

temp=temp->next;

}

cout<<"\n\nMember removed successfully !!";

return head;

}

void Node::addsecretary(Node\* head){ count++;

int prn; string name;

cout << "Enter PRN number : "; cin>>prn;

cout << "Enter name : "; cin>>name;

Node\* gNode = new Node(prn, name); if (head == NULL){

cout << "President must be added first " << endl; return;

}

Node\* current = head;

while (current->next != NULL){ current = current->next;

}

gNode->next = current->next; current->next = gNode;

}

Node\* Node::delsecretary(Node\* head){ Node \*temp,\*t1;

temp=head;

while(temp->next!=NULL)

{

t1=temp; temp=temp->next;

}

t1->next=NULL; free(temp); return head;

}

void Node::display(Node\* head){ Node\* current = head;

cout << "Printing LL: " << endl; while (current != NULL){

cout << current->prn << " " << current->name << endl; current = current->next;

}

}

void Node::countOfMembers(){

cout << "Total number of members: " << count << endl;

}

Node\* Node::combine(Node\* head1, Node\* head2){ Node \*temp1, \*temp2, \*head3;

temp1 = temp2 = head3 = NULL; temp1 = head1;

head3 = head1;

while (temp1->next != NULL){ temp1 = temp1->next;

}

temp2 = head2; temp1->next = temp2; return (head3);

}

int main() {

Node obj1(0,"0"); Node obj2(0,"0"); Node\* h1;

Node\* h2;

Node\* h3;

h1 = h2 = h3 = NULL;

cout << "\nChoices: "<< endl;

cout << "1. Enter details of SE-A\n2. Enter details of SE-B\n3. Combine the two sections"

<< endl;

int choice;

cout << "Enter your choice : "; cin>>choice;

switch (choice){ case 1:

{

bool flag = true; while (flag){

cout << "\nChoices: "<<endl;

cout << "1.Add president\n2. Add secretary\n3. Add members\n4. Remove President\n5. Remove Secretary\n6. Remove Member\n7. Display List"

"\n8. Count of the students\n9. Exit" << endl;

int ch;

cout << "Enter your choice : "; cin>>ch;

switch(ch){ case 1:

}

}break; case 2:

{

case 2:

case 3:

case 4:

case 5:

case 6:

case 7:

case 8:

case 9:

}

obj1.addpresident(h1); break;

obj1.addsecretary(h1); break;

obj1.addmembers(h1); break;

obj1.delpresident(h1); break;

obj1.delsecretary(h1); break;

obj1.delmembers(h1); break;

obj1.display(h1); break;

obj1.countOfMembers(); break;

flag = false; break;

bool flag = true;

while (flag){

cout << "\nChoices: "<<endl;

cout << "1.Add president\n2. Add secretary\n3. Add members\n4.

Remove President\n5. Remove Secretary\n6. Remove Member\n7. Display List"

"\n8. Count of the students\n9. Exit" << endl;

int ch;

cout << "Enter your choice : "; cin>>ch;

switch(ch){ case 1:

}

}

}

break;

}

}

case 2:

case 3:

case 4:

case 5:

case 6:

case 7:

case 8:

case 9:

obj2.addpresident(h2); break;

obj2.addsecretary(h2); break;

obj2.addmembers(h2); break;

obj2.delpresident(h2); break;

obj2.delsecretary(h2); break;

obj2.delmembers(h2); break;

obj2.display(h2); break;

obj2.countOfMembers(); break;

flag = false; break;