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#include<iostream>
#include<string.h>
using namespace std;

class Node{
    private:
        string name;
        int roll;
        string DateOfBirth;
        string Class;
        int division;
        string ContactNumber;
        string Blood_group;
        Node *next;

    public:
        Node(){
            division=0;
            this->next=NULL;
        }
        Node(int roll){
            this->roll=roll;
            this->next=NULL;
        }
        ~Node(){}
        friend class Student;
};

class Student{
    Node *head;
    int num;
    int r;
    public:
        Student(){
            head=NULL;
            num=0;
        }

        void inline Insert(){

            cout<<"Enter number of students: ";
            cin>>num;
            for(int i=0;i<num;i++){

                Node *ptr=new Node(r);
                cout<<"Enter students name: ";
                cin>>ptr->name;
                cout<<"Enter students roll number: ";
                cin>>r;
            }
        }
};

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        cout<<"Enter students Date of Birth: ";
        cin>>ptr->DateOfBirth;
        cout<<"Enter Students Class: ";
        cin>>ptr->Class;
        cout<<"Enter Students Division: ";
        cin>>ptr->division;
        cout<<"Enter students Contact Number: ";
        cin>>ptr->ContactNumber;
        cout<<"Enter Students Blood Group: ";
        cin>>ptr->Blood_group;
        if(head==NULL){
            head=ptr;
        }
        else{
            Node *temp=head;
            while(temp->next!=NULL){
                temp=temp->next;
            }
            temp->next=ptr;
        }
    }
}

void display(){
    Node *temp=head;
    while(temp!=NULL){
        for(int i=1;i<=num;i++){
            cout<<"Students Information"<<endl;
            cout<<"<-----Student("<<i<<")----->"<<endl;
            cout<<"Students Name: "<<temp->name<<endl;
            cout<<"Students Roll Number: "<<temp->roll<<endl;
            cout<<"Students Date of Birth: "<<temp->DateOfBirth<<endl;
            cout<<"Students Class: "<<temp->Class<<endl;
            cout<<"Students Division: "<<temp->division<<endl;
            cout<<"Students Contact Number: "<<temp->ContactNumber<<endl;
            cout<<"Students Blood Group: "<<temp->Blood_group<<endl;
            temp=temp->next;
        }
    }
}

void search(){
    string n;
    cout<<"Enter students Name: ";
    cin>>n;
    Node *temp=head;

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        while(temp!=NULL){
            if(temp->name==n){
                cout<<"\nStudents Information"<<endl;
                cout<<"Students Name: "<<temp->name<<endl;
                cout<<"Students Roll Number: "<<temp->roll<<endl;
                cout<<"Students Date of Birth: "<<temp->DateOfBirth<<endl;
                cout<<"Students Class: "<<temp->Class<<endl;
                cout<<"Students Division: "<<temp->division<<endl;
                cout<<"Students Contact Number: "<<temp->ContactNumber<<endl;
                cout<<"Students Blood Group: "<<temp->Blood_group<<endl;
            }
            temp=temp->next;
        }
    }
};

int main(){
    Student s;
    int choice;
    s.Insert();

    cout<<"\n<-----Menu----->"<<endl;
    cout<<"\n1)Display Students List\n2)Search Student"<<endl;
    cout<<"Enter your choice: ";
    cin>>choice;

    switch(choice){
        case 1:
            s.display();
            break;

        case 2:
            s.search();
            break;

        default:
            cout<<"Invalid Choice!"<<endl;
    }

    return 0;
}

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