#include <iostream>  
#include <string.h>  
using namespace std;  
class student\_data;  
class student  
{  
string name;  
int roll\_number;  
string grade;  
char\* division;  
string date\_of\_birth;  
char\* blood\_group;  
static int count;  
public:  
student() // Default Constructor  
   {  
       name=" ";  
       roll\_number=0;  
       grade=" ";  
       division=new char;  
       date\_of\_birth="dd/mm/yyyy";  
       blood\_group=new char[4];  
   }  
~student()//destructor  
   {  
       delete division;  
       delete[] blood\_group;  
   }  
static int getCount()  
   {  
       return count;  
   }  
void getData(student\_data\*);  
           void displayData(student\_data\*);  
};  
class student\_data  
{  
string address;  
long int\* telephone\_number;  
long int\* driving\_license\_number;  
friend class student;  
public:  
  
student\_data()//constructor  
{  
address=" ";  
telephone\_number=new long;  
driving\_license\_number=new long;  
}  
  
~student\_data()//destructor  
{  
   delete telephone\_number;  
   delete driving\_license\_number;  
   }  
   void getstudent\_data()  
   {  
       cout<<"Enter Contact Address : ";  
       cin.get();  
       getline(cin,address);  
       cout<<"Enter Telephone Number : ";  
       cin>>\*telephone\_number;  
       cout<<"Enter Driving License Number : ";  
       cin>>\*driving\_license\_number;  
   }  
   void dispstudent\_data()  
   {  
       cout<<"Contact Address : "<<address<<endl;  
       cout<<"Telephone Number : "<<\*telephone\_number<<endl;  
       cout<<"Driving License Number : "<<\*driving\_license\_number<<endl;  
   }  
  
};  
inline void student::getData(student\_data\* st)  
{  
   cout<<"Enter Student Name : ";  
   getline(cin,name);  
   cout<<"Enter Roll Number : ";  
   cin>>roll\_number;  
   cout<<"Enter Class : ";  
   cin.get();  
   getline(cin,grade);  
   cout<<"Enter Division : ";  
   cin>>division;  
   cout<<"Enter Date of Birth : ";  
   cin.get();  
   getline(cin,date\_of\_birth);  
   cout<<"Enter Blood Group : ";  
   cin>>blood\_group;  
   st->getstudent\_data();  
   count++;  
}  
inline void student::displayData(student\_data\* st1)  
{  
   cout<<"Student Name : "<<name<<endl;  
   cout<<"Roll Number : "<<roll\_number<<endl;  
   cout<<"Class : "<<grade<<endl;  
   cout<<"Division : "<<division<<endl;  
   cout<<"Date of Birth : "<<date\_of\_birth<<endl;  
   cout<<"Blood Group : "<<blood\_group<<endl;  
   st1->dispstudent\_data();  
}  
int student::count;  
  
int main()  
{  
   student\* stud1[100];  
   student\_data\* stud2[100];  
   int n=0;  
   char ch;  
   do  
   {  
   stud1[n]=new student;  
   stud2[n]=new student\_data;  
       stud1[n]->getData(stud2[n]);  
       n++;  
       cout<<"Do you want to add another student (y/n) : ";  
       cin>>ch;  
       cin.get();  
   }  
   while (ch=='y' || ch=='Y');  
  for(int i=0;i<n;i++)  
  {  
      cout<<"---------------------------------------------------------------"<<endl;  
      stud1[i]->displayData(stud2[i]);  
  }  
  
cout<<"---------------------------------------------------------------"<<endl;  
cout<<"Total Students : "<<student::getCount();  
cout<<endl<<"---------------------------------------------------------------"<<endl;  
  
    for(int i=0;i<n;i++)  
   {  
       delete stud1[i];  
       delete stud2[i];  
   }  
     
  
    return 0;  
}