#include <iostream>

#include<string.h>

#include<iomanip>

using namespace std;

class db

{

int roll;

char name[20];

char Class[10];

char Div[10];

char dob[10];

char bg[3],contact[10];

char phone[10],license[12];

public:

static int stdno;

static void count()

{

if(stdno>0)

cout<<"\nNo. of objects created: "<<0;

else

cout<<"\nNo. of objects created: "<<stdno;

}

void fin(){cout<<"\nInline Function!";}

db()

{

roll=0;

strcpy(name,"Sachin");

strcpy(Class,"I");

strcpy(Div,"A");

strcpy(dob,"11/11/1111");

strcpy(bg,"A");

strcpy(contact,"city");

strcpy(phone,"9000000000");

strcpy(license,"A0101010");

++stdno;

}

db(db \*ob)

{

strcpy(name,ob->name);

strcpy(dob,ob->dob);

strcpy(Class,ob->Class);

strcpy(Div,ob->Div);

strcpy(bg,ob->bg);

strcpy(contact,ob->contact);

strcpy(phone,ob->phone);

strcpy(license,ob->license);

++stdno;

}

void getdata()

{

cout<<"\n\nEnter:name,roll,Class,Div,Dob,bg,contact,phone,license \n\n\n";

cin>>name>>roll>>Class>>Div>>dob>>bg>>contact>>phone>>license;

}

void inline display(db d)

{

cout<<"\n"<<setw(12)<<d.name<<setw(5)<<d.roll<<setw(4)<<d.Class<<setw(3)<<d.Div<<setw(12)<<d.dob<<setw(4)<<d.bg<<setw(12)<<d.contact<<" "<<setw(12)<<d.phone<<" "<<setw(12)<<" "<<d.license;

}

};

int db::stdno;

int main()

{

int n,i;

db d1,\*ptr[5];

cout<<"\nDefault values:";

d1.display(d1);

d1.getdata();

d1.display(d1);

db d2(&d1);

cout<<"\n\nUse of copy constructor :\n";

d2. display(d2);

cout<<"\nHow many objects u want to create?:";

cin>>n;

for(i=0;i<n;i++)

{

ptr[i]=new db();

ptr[i]->getdata();

}

cout<<"\n"<<setw(12)<<"name"<<setw(5)<<"roll"<<setw(4)<<"Class"<<setw(4)<<"Div"<<setw(12)<<"dob"<<setw(4)<<"bg"<<setw(12)<<"contact"<<setw(12)<<"phone"<<setw(12)<<"license";

for(i=0;i<n;i++)

ptr[i]->display(ptr[i]);

db::count();

for(i=0;i<n;i++)

{

delete(ptr[i]);

}

cout<<"\nObjects deleted!" ;

}