#include<iostream>

#include<iomanip>

#include<cstring>

#include<cstdlib>

using namespace std;

class personal

{

char bg[3],name[20],dob[10];

float height,weight;

int insu\_pno;

char cadd[20];

char ph\_no[12];

int dlno;

static int cnt;

public:

friend class derived;

personal()

{

strcpy(name,"Pratyush");

strcpy(dob,"25oct90");

strcpy(bg,"o+");

height=5.4;

weight=47.5;

insu\_pno=123;

strcpy(cadd,"Nashik");

strcpy(ph\_no,"9087562413");

dlno=234;

}

personal(char name[],char dob[],char bg[],float height,float weight,int insu\_pno,char cadd[],char ph\_no[],int dlno)

{

strcpy(this->name,name);

strcpy(this->dob,dob);

strcpy(this->bg,bg);

this->height=height;

this->weight=weight;

this->insu\_pno=insu\_pno;

strcpy(this->cadd,cadd);

strcpy(this->ph\_no,ph\_no);

this->dlno=dlno;

}

personal(personal &p)

{

strcpy(p.name,name);

strcpy(p.dob,dob);

strcpy(p.bg,bg);

p.height=height;

p.weight=weight;

p.insu\_pno=insu\_pno;

strcpy(p.cadd,cadd);

strcpy(p.ph\_no,ph\_no);

p.dlno=dlno;

}

static void showcount()

{

cnt++;

cout<<"\nCount is : "<<cnt;

}

~personal()

{

cout<<"\nObjects is destroyed.."<<endl;

}

};

class derived

{

public:

void accept(personal &p)

{

cout<<"Enter the name:";

cin>>p.name;

cout<<"Enter the date of birth:";

cin>>p.dob;

cout<<"Enter the blod group:";

cin>>p.bg;

cout<<"Enter height:";

cin>>p.height;

cout<<"Enter the weight:";

cin>>p.weight;

cout<<"Enter the insurance policy no:";

cin>>p.insu\_pno;

cout<<"Enter the contact address:";

cin>>p.cadd;

cout<<"Enter the phone no:";

cin>>p.ph\_no;

cout<<"Enter the driving lisence no:";

cin>>p.dlno;

}

inline void display(personal &p)

{

cout<<endl;

cout<<setw(10)<<p.name;

cout<<setw(10)<<p.dob;

cout<<setw(4)<<p.bg;

cout<<setw(7)<<p.height;

cout<<setw(7)<<p.weight;

cout<<setw(5)<<p.insu\_pno;

cout<<setw(10)<<p.cadd;

cout<<setw(12)<<p.ph\_no;

cout<<setw(5)<<p.dlno;

}

};

int personal::cnt;

int main()

{

personal \*d1;

derived d;

int i,n;

cout<<"\nConstructor values...\n";

cout<<setw(10)<<"NAME";

cout<<setw(10)<<"DATE";

cout<<setw(3)<<"BG";

cout<<setw(7)<<"Height";

cout<<setw(7)<<"weight";

cout<<setw(5)<<"IPN";

cout<<setw(10)<<"ADDRESS";

cout<<setw(12)<<"PH NO";

cout<<setw(5)<<"DLN";

personal p("Gauri","24oct93","o-",5.5,50,345,"Dawarka","9430876123",789);

d.display(p);

personal::showcount();

personal p1;

d.display(p1);

personal::showcount();

cout<<"\nEnter how many records u want to insert:";

cin>>n;

d1=new personal[n];

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

d.accept(d1[i]);

cout<<endl;

cout<<setw(10)<<"NAME";

cout<<setw(10)<<"DATE";

cout<<setw(3)<<"BG";

cout<<setw(7)<<"Height";

cout<<setw(7)<<"weight";

cout<<setw(5)<<"IPN";

cout<<setw(10)<<"ADDRESS";

cout<<setw(12)<<"PH NO";

cout<<setw(5)<<"DLN";

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

{

personal::showcount();

d.display(d1[i]);

}

return 0;

}