include<iostream>

#include<string.h> //for handling string eg.strcpy()

#include<ctime> //current date and time of system

using namespace std;

class person

{

private:

char \*name,\*blood,\*address; //declared data variable

int dob;

long int insurance,tel,license;

float height,weight;

static int count; //static variables

public:

person() //default & dynamic constructor

{

count++;

cout<<"-----------------default information------------";

name=new char[13]; //allocate dynamic memory using new operator

strcpy(name,"default name");

blood=new char[3];

strcpy(blood,"O+");

address=new char[20];

strcpy(address,"Nasik");

insurance=542451;

tel=+45876112;

license=19122013;

height=5.5;

weight=100;

dob=1998;

display();

}

person(char n[],char b[],int yy,char add[],float w,

long int in,long int tn,long int ln,float h) //parameterized constructor

{

count++;

int len;

len=strlen(n);

name=new char[len+1];

strcpy(name,n);

len=strlen(b);

blood=new char[len+1];

strcpy(blood,b);

len=strlen(add);

address=new char[len+1];

strcpy(address,add);

dob=yy;

insurance=in;

tel=tn;

license=ln;

height=h;

weight=w;

}

void display(); //display function declaration

static int displaycount() //static member function

{

cout<<"\n NUMBER OF ENTRIES ARE:"<<count<<endl;

}

~person() //destructor having same name like construct

{

cout<<"\n destructor called...";

}

};

int person::count=0;

void person::display() //display function definition

{

cout<<"\n PERSON NAME:"<<name;

cout<<"\n BLOOD GROUP:"<<blood;

cout<<"\n DATE OF BIRTH:"<<dob;

cout<<"\n CONTACT ADDRESS:"<<address;

cout<<"\n INSURANCE NUMBER:"<<insurance;

cout<<"\n TELEPHONE NUMBER:"<<tel;

cout<<"\n LICENSE NUMBER:"<<license;

cout<<"\n HEIGHT:"<<height;

cout<<"\n WEIGHT:"<<weight<<endl;

}

int main()//initializing main function

{

int ch; //variable declaration

person \*p[20],\*temp;

char pname[15],pblood[5],paddress[20];

long int pinsurance,ptel,plicense;

float pheight,pweight;

int cnt=0,dd;

do

{

cout<<"\n --------MENU--------"<<endl;

cout<<"\n 1.DEFAULT CONSTRUCTER ";

cout<<"\n 2.PARAMETERIZED CONSTRUCTOR";

cout<<"\n 3.NUMBER OF ENTRIES";

cout<<"\n 4.DISPLAY";

cout<<"\n 5.EXIT";

cout<<"\n ENTER THE CHOICE:";

cin>>ch;

switch(ch)

{

case 1: //DEFAULT CONSTRUCTER INFORMATION

p[cnt]=new person();

cnt=cnt+1;

break;

case 2: //PARAMETERIZED CONSTRUCTOR INFORMATION

cout<<"\n ENTER THE PERSON NAME:";

cin>>pname;

cout<<"\n ENTER THE PERSON BLOOD GROUP:";

cin>>pblood;

cout<<"\n ENTER DATE OF BIRTH:";

cin>>dd;

cout<<"\n ENTER THE PERSON CONTACT ADDRESS:";

cin>>paddress;

cout<<"\n ENTER THE PERSON INSURANCE NUMBER:";

cin>>pinsurance;

cout<<"\n ENTER THE PERSON TELEPHONE NUMBER:";

cin>>ptel;

cout<<"\n ENTER THE PERSON LICENSE NUMBER:";

cin>>plicense;

cout<<"\n ENTER THE PERSON HEIGHT:";

cin>>pheight;

cout<<"\n ENTER THE PERSON WEIGHT:";

cin>>pweight;

p[cnt]=new person(pname,pblood,dd,paddress,pinsurance,ptel,plicense,pheight,pweight);

cnt=cnt+1;

break;

case 3: //NUMBER OF ENTRIES INFORMATION

person::displaycount();

break;

case 4:

for(int i=0;i<cnt;i++)

{

p[i]->display();

}

break;

case 5:

return 0;

}

} while(ch!=4);

}