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Gr:21810017\*/

/\*problem statment:Develop an object oriented program in C++ to create a database of student information system containing the following information: Name, Roll number, Class, division, Date of Birth, Blood group, Contact address, telephone number, driving license no. etc Construct the database with suitable member functions viz, static member functions, friend class/ friend function, this pointer, inline code and dynamic memory allocation operators-new and delete. Implement all the keywords as mentioned in the problem statement. \*/

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#include<iostream>

#include<stdio.h>

#include<string>

using namespace std;

class emp

{

unsigned int mo,da,ye;

string na,add;

string idd;

long long phno;

string bg;

string bgk;

double sal;

public:

emp()

{

mo=05,da=19,ye=1999;

idd="12345rtgs"; na="Anom Devgun"; add="Plot 313 Amar Srushti";

sal=10900.30;

phno=7590785487;

bg="AB+";

bgk="Invalid Blood Group";

cout<<"Format of Entering Data\n";

cout<<"Id:"<<idd<<endl;

cout<<"Name:"<<na<<endl;

cout<<"Date of Birth: "<<da<<"/"<<mo<<"/"<<ye<<endl;

cout<<"Address:"<<add<<endl;

cout<<"Salary:"<<sal<<endl;

cout<<"Phone Number is :"<<"+91"<<phno<<"\n";

cout<<"Blood Group is: "<<bg<<"\n";

}

int dat();

void accept();

void display();

};

int emp::dat()

{

int fa=1;

cout<<"Enter Dob :\n";

cout<<"Day :\n";

cin>>da;

cout<<"Month :\n";

cin>>mo;

cout<<"Year :\n";

cin>>ye;

cout<<"\n";

if(da>31)

{

cout<<"Invalid Day Entered\n";

fa=0;

}

if(da<1)

{

fa=0;

cout<<"Invalid Day Entered\n";

}

if(mo<1)

{

fa=0;

cout<<"Invalid Month Entered\n";

}

if(mo>12)

{

fa=0;

cout<<"Invalid Month Entered\n";

}

if(ye<1)

{

fa=0;

cout<<"Invalid Year Entered\n";

}

if(fa==0)

{

return 3;

}

else if(fa==1)

{

return 2;

}

}

void emp::accept()

{

string bg1[9]={"A+","A-","B+","B-","AB+","AB-","O+","O-","\0"};

int k=0,g=1;

cout<<"Input Id:\n";

cin.ignore();

getline(cin,idd);

cout<<"Input Name :\n";

getline(cin,na);

cout<<"Input Address :\n";

getline(cin,add);

void dat();

cout<<"Enter Salary :\n";

cin>>sal;

cout<<"Enter BloodGroup :\n";

cin.ignore();

getline(cin,bg);

for(k=0;bg1[k]!="\0";k++)

{

if(bg==bg1[k])

{

g=0;

if(g==0)

{

bgk=bg1[k];

}

}

}

}

void emp::display()

{

cout<<"\nId is :"<<idd<<endl;

cout<<"Name is :"<<na<<endl;

cout<<"Address is :"<<add<<endl;

cout<<"Date of Birth is :"<<da<<"/"<<mo<<"/"<<ye<<endl;

cout<<"Salary is :"<<sal<<endl;

cout<<"Blood Group is:"<<bgk<<"\n";

}

int main()

{

int n,l;

int fla=1;

cout<<"Input Number of Employees : \n";

cin>>n;

emp obj[n];

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

{

obj[i].accept();

while(fla==1)

{

l=obj[i].dat();

if(l== 3)

{

obj[i].dat();

}

if(l== 2)

{

fla=0;

}

}

}

for(int j=0;j<n;j++)

{

obj[j].display();

}

return 0;

}