//multiinhertance

//Ggregation

a#include<iostream>

#include<string>

using namespace std;

class student

{

private:

string school;

string degree;

public:

void getedu()

{

cout<<" Enter the name of school"<<endl;

cin>>school;

cout<<" Enter highest degree entered"<<endl;

cout<<" (Highschool, Bachelors, Masters, PHD)"<<endl;

cin>>degree;

}

void putedu() const

{

cout<<"\n school or university:"<<school;

cout<<"\n highest degree entered:"<<degree;

}

};

class employee

{

private:

string name;

unsigned long number;

public:

void getdata()

{

cout<<"\n enter last name:";cin>>name;

cout<<" enter number:"; cin>>number;

}

void putdata() const

{

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

cout<<"\n number:"<<number;

}

};

class experience

{

private:

string years;

string field;

public:

void getdata()

{

cout<<"enter the experienced years"<<endl;

cin>>years;

cout<<"enter the field"<<endl;

cin>>field;

}

void putdata()

{

cout<<"\n years:"<<years;

cout<<"\n field:"<<field;

}

};

class manager

{

private:

string title;

double dues;

employee emp;

student stu;

public:

void getdata()

{

emp.getdata();

cout<< "enter title: "; cin>>title;

cout<<" enter golf club dues:"; cin>>dues;

stu.getedu();

}

void putdata() const

{

emp.putdata();

cout<<"\n title:" <<title;

cout<<"\n golf club dues:"<<dues;

stu.putedu();

}

};

class scientist

{

private:

int pubs;

employee emp;

student stu;

public:

void getdata()

{

emp.getdata();

cout<<" enter number of pubs:";cin>>pubs;

stu.getedu();

}

void putdata() const

{

emp.putdata();

cout<<"\n number of publications:"<<pubs;

stu.putedu();

}

};

int main()

{

manager m1;

scientist s1,s2;

experience e1;

cout<<endl;

cout<<"enter data for manager 1"<<endl;

m1.getdata();

cout<<"enter data for scientist 1"<<endl;

s1.getdata();

cout<<"enter data scientist 2"<<endl;

s2.getdata();

cout<<"enter data for experience 1"<<endl;

e1.getdata();

cout<<"data on manager 1"<<endl;

m1.putdata();

cout<<"data on scientist 1"<<endl;

s1.putdata();

cout<<"data on scientist 2"<<endl;

s2.putdata();

cout<<"data on experience 1"<<endl;

e1.putdata();

cout<<endl;

return 0;

system("pause");

}