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#include<iostream>

using namespace std;

class person

{

string name;

string age;

protected:

void setPersonInfo()

{

cout<<"Enter the name of the person\n";

cin>>name;

cout<<"Enter the age of the person\n";

cin>>age;

}

void dispPersonInfo()

{

cout<<"Name is : "<<name<<" The age is : "<<age<<endl;

}

};

class doctor:public person

{

string college;

public:

void setDoctor()

{

setPersonInfo();

cout<<"Enter the college from which the doctor graduated \n";

cin>>college;

}

void dispDoctor()

{

dispPersonInfo();

cout<<"The college from which you graduated :"<<college<<endl;

}

};

class engineer:public person

{

string college;

public:

void setEngineer()

{

setPersonInfo();

cout<<"Enter the college from which the Engineer graduated \n";

cin>>college;

}

void dispEngineer()

{

dispPersonInfo();

cout<<"The college from which you graduated :"<<college<<endl;

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}

};

class artist:public person

{

string college;

public:

void setArtist()

{

setPersonInfo();

cout<<"Enter the college from which the Artist graduated \n";

cin>>college;

}

void dispArtist()

{

dispPersonInfo();

cout<<"The college from which you graduated :"<<college<<endl;

}

};

class specialistDoctor:protected doctor

{

string field;

public:

void setSpecialistDoctor()

{

setDoctor();

cout<<"Enter the field of specialization \n";

cin>>field;

}

void dispSpecialistDoctor()

{

dispDoctor();

cout<<"The field of specialization is in : "<<field<<endl;

}

};

int main()

{

doctor d1;

d1.setDoctor();

engineer e1;

e1.setEngineer();

artist a1;

a1.setArtist();

specialistDoctor s1;

s1.setSpecialistDoctor();

d1.dispDoctor();

e1.dispEngineer();

a1.dispArtist();

s1.dispSpecialistDoctor();

return 0;

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}

OUTPUT:

Enter the name of the person

niraj

Enter the age of the person

34

Enter the college from which the doctor graduated

gmc

Enter the name of the person

precious

Enter the age of the person

25

Enter the college from which the Engineer graduated

gec

Enter the name of the person

abishai

Enter the age of the person

27

Enter the college from which the Artist graduated

xavier

Enter the name of the person

sean

Enter the age of the person

21

Enter the college from which the doctor graduated

gec

Enter the field of specialization

ent

Name is : niraj The age is : 34

The college from which you graduated :gmc

Name is : precious The age is : 25

The college from which you graduated :gec

Name is : abishai The age is : 27

The college from which you graduated :xavier

Name is : sean The age is : 21

The college from which you graduated :gec

The field of specialization is in : ent